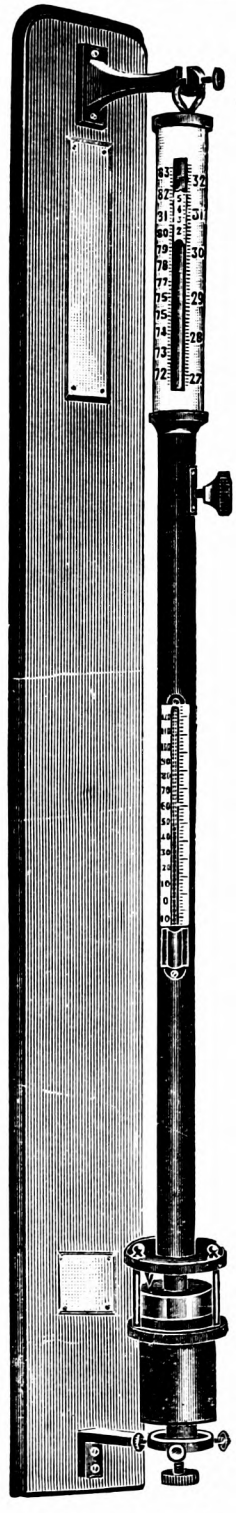
115

METEOROLOGICAL OFFICE
29 SEP 1933
DONNINGTON, WILTS.

Manufacturers since 1834.

Awarded Eight Medals for Excellency.



ALL KINDS
OF
REPAIRS
A
SPECIALITY

Standard Mercurial
Barometers.

—

Meteorological
Instruments.

—

Field Glasses, &c.

CATALOGUE
ON
APPLICATION

F. DARTON & Co., Ltd.

142, St. John Street, E.C.1, LONDON.

Telephone:
CLERKENWELL 5863.

Code:
A.B.C. 6th EDITION.

Telegraphic Address:
"EXCEPTIONAL, LONDON."

By kind permission of the "Daily Mail."

In all parts of England, in fact, all over the world there are

Rain Gauges

made by Negretti & Zambra.

Founded in 1850, this firm has a reputation for

Meteorological Instruments

of the highest quality.

NEGRETTI & ZAMBRA

38 Holborn Viaduct, London

116

BRITISH RAINFALL
1932

Photo by David Deans.]

QUEEN'S DRIVE, KILMARNOCK, AT 11h. ON JANUARY 3RD, 1932.

FOR OFFICIAL USE

M.O. 355 AIR MINISTRY

METEOROLOGICAL OFFICE

BRITISH RAINFALL

1932

THE SEVENTY-SECOND ANNUAL VOLUME OF
THE BRITISH RAINFALL ORGANIZATION

Report on the

DISTRIBUTION OF RAIN

IN SPACE AND TIME OVER THE
BRITISH ISLES DURING THE YEAR
1932 AS RECORDED BY OVER 5,000
OBSERVERS IN GREAT BRITAIN AND
IRELAND

WITH MAPS AND ILLUSTRATIONS

Issued by the Authority of the
Meteorological Committee

Crown Copyright Reserved

LONDON
PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE
To be purchased directly from H.M. STATIONERY OFFICE at the following addresses
Adastral House, Kingsway, London, W.C.2; 120, George Street, Edinburgh 2
York Street, Manchester 1; 1, St. Andrew's Crescent, Cardiff
15, Donegall Square West, Belfast
or through any Bookseller

1933

Price 15*s.* 0*d. Net*

40—10—0—32.

Errata in "British Rainfall," 1931.

p. 136. Table XXIV :

for Inverness . . . Dalwhinnie (Drumochter Lo.) *read* Ross . . . Strathpeffer.

for Ross . . . Strathpeffer *read* Sutherland .. Melvich.

CONTENTS.

PART I.

PAGE

THE WORK OF THE BRITISH RAINFALL ORGANIZATION—*The Staff of Observers—Checking of Records—Averages—Investigations—Inspections—Survey Maps—Inquiries—Obituary* x

PART II.

RAINFALL AND METEOROLOGY OF 1932.

1. A BRIEF SUMMARY OF THE RAINFALL OF THE YEAR 2
2. THE DISTRIBUTION OF RAINFALL IN TIME—DAYS WITH RAIN .. 5
3. DROUGHTS AND DRY SPELLS 16
4. RAIN SPELLS AND WET SPELLS 28
5. DURATION OF RAINFALL 37
6. HEAVY FALLS IN SHORT PERIODS 46
7. HEAVY FALLS ON RAINFALL DAYS 57
8. MONTHLY RAINFALL 81
9. SEASONAL RAINFALL 128
10. TOTAL RAINFALL IN 1932 137
11. EVAPORATION AND PERCOLATION 141

PART III.

EXPLANATORY NOTE 149
COUNTY INDEX TO GENERAL TABLE 151
GENERAL TABLE: THE RAINFALL OF THE YEAR 152

PART IV.

THE FREQUENCY DISTRIBUTION OF DAILY RAINFALL. BY E. G. BILHAM, B.Sc. AND A. C. LLOYD 268

REPORT ON EXPERIMENTS WITH RAIN-GAUGE SHIELDS IN EXPOSED POSITIONS DURING THE PERIOD 1ST MAY, 1932, TO 30TH APRIL, 1933, AT HUTTON JOHN, PENRITH. BY F. HUDLESTON, M.INST.C.E. .. 278

THE RAINFALL OF THE TEES VALLEY. BY J. GLASSPOOLE, M.Sc., PH.D. 289

LIST OF TABLES (PART II AND III).

PART II.

TABLE		PAGE
I.	Annual General Number of Rain-days, 1917–1932 ..	9
II.	Monthly General Number of Rain-days, 1917–1932 (British Isles)	9
III.	Annual General Number of Wet-days, 1917–1932 ..	10
IV.	Monthly General Number of Wet-days, 1917–1932 (British Isles)	10
V.	Number of Rain-days and of Wet-days in 1932 (Monthly and Annual Values for 100 Selected Stations) ..	11
VI.	Droughts at 100 Stations, 1917–1932	19
VII.	Dry Spells at 100 Stations, 1917–1932	19
VIII.	Droughts and Dry Spells in 1932 (Dates of occurrence at 100 Selected Stations)	20
IX.	Rain Spells at 100 Stations, 1917–1932	30
X.	Wet Spells at 100 Stations, 1917–1932	30
XI.	Rain Spells and Wet Spells in 1932 (Dates of occurrence at 100 Selected Stations)	31
XII.	Duration of Rainfall at 79 Stations during 1932 Monthly and Annual Values	40
XIII.	Mean Rate of Rainfall at 79 Stations during 1932 Monthly and Annual Values	41
XIV.	Rainfalls of "Very Rare" Intensity, 1868–1932 ..	52
XV.	Heavy Falls in Short Periods in 1932	53
XVI.	Number of Days on which Specified Amounts of Rain fell in Specified Times during 1932	55
XVII.	Maximum Daily Fall and Maximum Percentage, 1913 to 1932	58
XVIII.	The Largest Daily Rainfalls in 1932	58
XIX.	General Rainfall for 1932. Monthly and Annual Values	82
XX.	Monthly Rainfall at 400 Stations during 1932	110
XXI.	Monthly Rainfall in 1932; the Average, 1881–1915, being taken as 100. (150 Stations, together with General Values)	123
XXII.	Seasonal Rainfall, 1931–1932, in Relation to the Average 1881–1915	134
XXIII.	Annual General Rainfall, 1932, compared with Average	138
XXIV.	Annual Rainfall of 1932 as Percentage of Average, 1881–1915. (121 Stations; see also Table XXI) ..	140
XXV.	Evaporation in 1932	144
XXVI.	Rainfall, Percolation and Calculated Evaporation in 1932	145
XXVII.	Evaporation at Camden Square, London, 1885–1932 ..	146

PART III.

County Index to General Table 151
General Table 152–266

LIST OF ILLUSTRATIONS.

PAGE

Plate showing Queen's Drive, Kilmarnock at 11h. on January 3rd, 1932 .. .. *Frontispiece*

Distribution of Wet Days in 1932 (Map) 6

Maps of Number of Partial Droughts and of Number of Dry Spells, 1932 17

Limits of Heavy Falls in Short Periods (Diagram) 46

Autographic Rain-gauge Record, Cranwell Aerodrome, 11th July, 1932 .. 49

Maps of Heavy Rainfall, 5th and 9th January, 1932 61

Synoptic Charts, 21st May, 1932, 18h. and 22nd May, 1932, 7h. 67

Map of Heavy Rainfall, 21st May, 1932 68

Map of Heavy Rainfall, 11th July, 1932 71

Map of Heavy Rainfall, 13th July, 1932 73

Maps of the Total Rainfall and of the Percentage of the Average in each month in 1932 86–109

Maps of Seasonal Rainfall—

Winter Half-year, 1931–32 128

Summer Half-year, 1932 129

Twelve months, October, 1931—September, 1932 130

Map of the Distribution of Total Rainfall in 1932 .. .. .. *face p.* 138

Coloured Map of the Relation of the Rainfall of 1932 to the Average *face p.* 140

Map showing Divisions used in British Rainfall 148

Frequency Curves of Daily Rainfall (Diagram) 271

Map of the Distribution of the Average Annual Rainfall over the Tees Valley .. .. *face p* 289

BRITISH RAINFALL, 1932

PART I

THE WORK
OF THE
BRITISH RAINFALL ORGANIZATION

BRITISH RAINFALL, 1932.

PART I.

THE WORK OF THE BRITISH RAINFALL ORGANIZATION

THE STAFF OF OBSERVERS.

The detailed account of the rainfall of the year 1932 over the British Isles, which is presented in this volume, follows the lines of previous issues. The basis of the discussion is a collection of more than 5,300 returns of rainfall measurements for the year received from all parts of the country. The measurements are generally made every day, but in inaccessible districts they may be made only once a week or even once a month. Only a small number of the observers receive payment from the Meteorological Office; the great majority of the rainfall returns are contributed either by private persons, who measure the rainfall primarily as a matter of private interest, or by public local authorities, and especially the authorities of water undertakings, who find that a knowledge of the rainfall over their gathering grounds is indispensable to them in their work. These two classes of observers forward copies of their observations voluntarily for preservation by the British Rainfall Organization of the Meteorological Office as national records, and for use not only in the preparation of the annual volumes of *British Rainfall* but also for purposes of study and research. In this way records which are primarily of local interest acquire a national value which was not always realized by those who initiated them. To the numerous voluntary observers who forward their observations the Organization desires to acknowledge its indebtedness: it would be quite impossible to compile such an account as this without their assistance and goodwill.

In order to ensure, so far as possible, that the various records of rainfall summarized in the volume may be comparable with one another, the Organization issues to each observer and to anyone who is interested, a copy of a pamphlet entitled *Rules for Rainfall Observers*. This pamphlet was originally drawn up by the late Mr. G. J. Symons, F.R.S., founder of the Organization, and although it has been extensively revised since his time, yet the fundamental rules laid down by him remain practically unaltered.

The total number of records printed in Part III of this volume is 5,383, an increase of 54 records over last year. As many as 309 additional records are included in the volume, while 255 records printed in *British Rainfall*, 1931, are no longer available. Details as to the numbers of records printed in earlier volumes are given in a separate table.

The number of records published for England is 35 more than last year, while there are 20 more for Wales and 10 more for Scotland. Ireland shows a loss of 11 records. The counties with the largest net gains during 1932 are Ayrshire, Breconshire, Westmorland, Cumberland and Surrey with 12, 9, 9, 8 and 8 respectively. On the other hand there are 5 fewer stations in Argyllshire. There were only 34 records in Ayrshire in *British Rainfall*, 1925, compared with 95 in the present volume, so that the number is now nearly trebled. This large increase is due to the enthusiasm of Mr. W. Dunbar, F.R.Met.Soc., who is endeavouring to define the variations in the rainfall over Ayrshire and adjacent counties.

Of the gains in England those in the English Lake District call for special mention. The records at Borrowdale (Stockley Bridge) and Watendlath Farm add to our knowledge of the rainfall over the area draining to Derwent Water. That at Caldbeck (Wellbank) together with the record at Skiddaw House, which commenced in July, 1932, assist in defining the rainfall over Skiddaw and Saddleback. Eight additional records have been supplied by the Engineer to the Manchester Corporation W. W. from the neighbourhood of Hawes Water and Thirlmere. Mr. V. A. C. Durand, Engineer to the Witham Drainage General Commissioners at Boston has supplied two new records from that area, and has set up five additional rain-gauges during the year. Additional records have also been supplied by Mr. Clemesha Smith, Engineer to the Wakefield Corporation. A series of valuable records are available from the Taff Fawr catchment area from which Cardiff receives its water supply. Some of these records are of special importance because they are from gauges set up on the windward side of the valley where considerable difficulties are experienced in selecting suitable exposures. It is satisfactory to find that the records confirm the general distribution which had been anticipated. In Scotland the most notable gain is that of six records from the Afton Reservoir supplied by W. Gray, Esq., C.E. Additional records have been received from Rosapenna Hotel and Mulroy Gardens in Co. Donegal, both through the good offices of the Earl of Leitrim.

A number of records which were not available for 1931 appear again in the General Table. Of these, mention may be made of Helston in Cornwall, Honiton (Allington) in S. Devon, Hopton

(Hopton House) and Holbrook Hall in Suffolk and Wallingford Castle in Berkshire. The record maintained at Carlow (Browne's Hill), which commenced in 1866, is also included after the omission of the record for one year.

Rainfall records for 1932 and for earlier years have been received in a number of cases, including those at Reigate (Raglan Rd.) since 1907 from Mr. G. E. Collip; Wigmore (Beare Green) since 1920 from Mr. S. Mortimer; Chelmsford (Little Baddow) since 1924 from Mr. A. L. Woodhouse; Bristol (Hopewell Hill) since 1907 from the West Gloucestershire Water Co.; Chathill (Preston Tower) since 1916 from Mr. G. G. Baker Cresswell and Llanfyllin (Llwyn) since 1922 from Major W. M. Dugdale.

Among the more serious omissions from the General Table the following stations with long records may be mentioned: Hawkedon Rectory, Wistanstow, Shrewsbury (Roden), Rounton Grange, Howick Hall, Mealsgate (Quarry Hill), Fishguard (Langton, Dwrbach), Yspytty-Ystwyth (Hafod), Llangurig (Dernol), Prestonkirk (Smeaton), and Killybegs (Rockmount).

Changes in County boundaries. As a result of the 1929 Local Government Act, the boundaries of all Counties in England are at present being reviewed for the purpose of straightening out anomalies and abolishing detached areas. While these adjustments are likely to be numerous for some while to come, they are not likely to involve the transference of many rainfall stations from one county to another. In the 1931 volume the station at Blockley was included in Gloucestershire, whereas formerly it was in Worcestershire. In the present volume Northenden Sewage Farm is given in South Lancashire 1, whereas had the record been available previously it would have appeared under Cheshire 1. No changes have yet been made in the areas for each river basin and each county given in the General Table, Part III.

For assistance in the collection of the rainfall returns for the year we are especially indebted to officials of various local organizations, among whom may be mentioned:—Mr. C. P. Sinclair, of the Hertfordshire Natural History Society and Field Club, Mr. R. H. Primavesi, of the Northamptonshire Natural History Society; Col. H. C. Copeman, of the Norfolk Rainfall Organization; Mr. W. G. Willis Watson, of Exeter; Miss Young, Librarian at the Barnstaple Athenæum; the Rev. F. P. Synge, of the Mid-Wessex Rainfall Association; Mr. A. P. Jenkin, of the Cornwall Rainfall Association; Mr. A. A. Barnes, of the Manchester and Stockport Rainfall Organization; Mr. A. J. Jenkins, of Jersey; Miss Cordelia Marshall, of Ambleside; Mr. W. Dunbar, of Kilmarnock; and Mr. E. W. M. Murphy, of the Irish Rainfall Association.

British Rainfall, 1932, *compared with* 1931.
Number of Records Published.

	Gain.	Loss.	Difference.	Per cent. change in year.
England	214 ..	179 ..	+ 35 ..	+ 0·9
Wales, etc.	33 ..	13 ..	+ 20 ..	+ 4·2
Scotland	51 ..	41 ..	+ 10 ..	+ 1·2
Ireland	11 ..	22 ..	− 11 ..	− 4·4
British Isles ..	309 ..	255 ..	+ 54 ..	+ 1·0

Number of Rainfall Records Published in the Volumes of "British Rainfall" for the undermentioned Years.

Years.	England.	Wales, etc.	Scotland.	Ireland.	British Isles.	Change from previous year.	No. of Stations per 100 sq. mi.
1861 ..	333 ..	9 ..	109 ..	20 ..	471 ..	+ 47 ..	0·4
1871 ..	1038 ..	88 ..	311 ..	67 ..	1504 ..	+ 5 ..	1·2
1881 ..	1548 ..	131 ..	313 ..	153 ..	2145 ..	+ 41 ..	1·8
1891 ..	2091 ..	168 ..	359 ..	181 ..	2799 ..	+ 23 ..	2·3
1901 ..	2616 ..	253 ..	442 ..	195 ..	3506 ..	+ 13 ..	2·9
1911 ..	3705 ..	397 ..	701 ..	271 ..	5074 ..	+198 ..	4·2
1914 ..	3962 ..	450 ..	753 ..	288 ..	5453 ..	+ 83 ..	4·5
1919 ..	3419 ..	436 ..	766 ..	277 ..	4898 ..	−101 ..	4·1
1920 ..	3460 ..	453 ..	758 ..	281 ..	4952 ..	+ 54 ..	4·1
1921 ..	3577 ..	446 ..	784 ..	271 ..	5078 ..	+126 ..	4·2
1922 ..	3601 ..	470 ..	785 ..	270 ..	5126 ..	+ 48 ..	4·2
1923 ..	3406 ..	442 ..	754 ..	262 ..	4864 ..	−262 ..	4·0
1924 ..	3438 ..	438 ..	756 ..	248 ..	4880 ..	+ 16 ..	4·0
1925 ..	3437 ..	439 ..	750 ..	259 ..	4885 ..	+ 5 ..	4·0
1926 ..	3418 ..	442 ..	775 ..	238 ..	4873 ..	− 12 ..	4·0
1927 ..	3491 ..	448 ..	786 ..	245 ..	4970 ..	+ 97 ..	4·1
1928 ..	3585 ..	441 ..	791 ..	251 ..	5068 ..	+ 98 ..	4·2
1929 ..	3665 ..	453 ..	797 ..	265 ..	5180 ..	+112 ..	4·3
1930 ..	3765 ..	455 ..	834 ..	262 ..	5316 ..	+136 ..	4·4
1931 ..	3763 ..	454 ..	850 ..	262 ..	5329 ..	+ 13 ..	4·4
1932 ..	3798 ..	474 ..	860 ..	251 ..	5383 ..	+ 54 ..	4.5
Difference from 1931	+35 ..	+20 ..	+10 ..	−11 ..	+ 54 ..	— ..	+0·1

County.	Records in 1931.	Records Lost.	Records Gained.	Records in 1932.	Records per 100 sq. mi. of area.
ENGLAND.					
London	54	2	2	54	46
Surrey	194	12	20	202	28
Kent	179	10	10	179	12
Sussex	170	11	13	172	12
Hampshire ..	181	14	11	178	11
Berkshire ..	63	4	4	63	9
Middlesex ..	64	5	2	61	26
Hertfordshire	87	3	4	88	14
Buckinghamshire	49	1	3	51	7
Oxfordshire ..	56	3	3	56	7
Northampton ..	62	3	4	63	6
Huntingdonshire	7	1	1	7	2
Bedfordshire ..	26	1	1	26	6
Cambridgeshire	43	2	1	42	5
Essex	110	6	6	10	7
Suffolk ..	63	2	6	67	4
Norfolk ..	80	3	2	79	4
Wiltshire ..	66	1	1	66	5
Dorsetshire ..	88	5	6	89	9
South Devon ..	194	13	10	191	11
North Devon ..	46	3	3	46	5
Cornwall ..	83	2	7	88	6
Somersetshire ..	168	8	7	167	10
Gloucestershire	93	5	3	91	7
Herefordshire	50	5	0	45	5
Shropshire ..	54	6	5	53	4
Staffordshire	65	6	5	64	6
Worcestershire	61	2	3	62	8
Warwickshire	48	3	4	49	5
Leicestershire	37	0	1	38	5
Rutlandshire ..	2	0	0	2	1·3
Lincolnshire ..	62	4	5	63	2
Nottinghamshire	57	1	3	59	7
Derbyshire ..	87	1	3	89	9
Cheshire ..	92	1	2	93	9
South Lancs. ..	127	4	2	125	18
Central Lancs. .	78	2	6	82	15
North Lancs. ..	51	1	3	53	9
Yorkshire, W.R.	327	14	13	326	12
Yorkshire, E.R.	26	0	0	26	2
Yorkshire, N.R.	92	2	4	94	4
Durham	55	0	0	55	5
Northumberland	41	1	2	42	2
Cumberland ..	54	2	10	62	4
Westmorland ..	71	4	13	80	10
MONMOUTH, WALES, ETC.					
Monmouth ..	33	1	0	32	6
Glamorgan ..	67	2	4	69	9
Carmarthen ..	16	0	0	16	2
Pembroke ..	14	2	0	12	2
Cardigan ..	17	1	3	19	3
Brecon	78	0	9	87	12
Radnor	24	0	2	26	5
Montgomery ..	24	3	3	24	3
Flint	19	0	1	20	8
Denbigh.. ..	39	1	2	40	6
Merioneth ..	23	0	2	25	4
Carnarvon ..	51	2	4	53	9
Anglesey ..	14	0	3	17	6
Isle of Man ..	10	1	0	9	4
Channel Islands	25	0	0	25	33
SCOTLAND.					
Wigtown ..	11	0	1	12	2
Kirkcudbright	13	0	0	13	1·4
Dumfries ..	18	2	2	18	1·7
Roxburgh ..	15	0	0	15	2
Selkirk	5	1	0	4	1·5
Peebles ..	15	1	0	14	4
Berwick ..	14	3	1	12	3
E.Lothian (Had'n)	15	1	0	14	5
Midlothian ..	37	1	1	37	10
W. Lothian (Lin.)	16	1	2	17	14
Lanark	50	0	3	53	6
Ayr	83	3	15	95	8
Renfrew ..	39	2	1	38	16
Dumbarton ..	24	1	0	23	9
Stirling.. ..	48	2	1	47	10
Bute	7	0	0	7	3
Argyll	68	5	0	63	2
Clackmannan ..	8	0	0	8	15
Kinross	5	1	1	5	6
Fife	35	4	1	32	6
Perth	69	3	7	73	3
Angus	42	0	0	42	5
Kincardine ..	13	1	0	12	3
Aberdeen ..	38	2	1	37	2
Banff	10	0	0	10	1·6
Moray	10	0	1	11	2
Nairn	6	0	2	8	5
Inverness ..	74	4	7	77	2
Ross & Cromarty	29	3	2	28	0·9
Sutherland ..	7	0	1	8	0·4
Caithness ..	9	0	1	10	1·4
Orkney	12	0	0	12	3
Shetland ..	5	0	0	5	0·9
IRELAND.					
Cork	19	1	0	18	0·6
Kerry	13	3	0	10	0·5
Waterford ..	6	2	1	5	0·7
Tipperary ..	14	2	0	12	0·7
Limerick ..	8	0	0	8	0·8
Clare	5	0	0	5	0·4
Wexford ..	6	1	0	5	0·6
Kilkenny ..	4	0	0	4	0·5
Wicklow ..	9	1	0	8	1·0
Carlow	5	0	1	6	1·7
Leix	3	1	0	2	0·3
Offaly	8	0	0	8	1·0
Kildare.. ..	4	0	0	4	0·6
Dublin	29	3	0	26	7
Meath	7	2	1	6	0·7
Westmeath ..	8	0	0	8	1·1
Louth	4	0	0	4	1·3
Longford ..	5	0	1	6	1·4
Galway	9	0	1	10	0·4
Roscommon ..	3	0	0	3	0·3
Mayo	8	0	1	9	0·4
Sligo	2	0	0	2	0·3
Leitrim	3	1	0	2	0·3
Cavan	3	0	0	3	0·4
Fermanagh ..	8	0	0	8	1·1
Monaghan ..	0	0	0	0	0·0
Armagh	5	0	1	6	1·2
Down	17	1	0	16	1·7
Antrim	22	2	0	20	1·7
Londonderry ..	13	0	2	15	1·8
Tyrone	5	0	0	5	0·4
Donegal ..	7	2	2	7	0·4

CHECKING OF RECORDS.—Every record of rainfall which is published in Part III of this volume goes through a process of examination before it is included in the table. This consists in the plotting of the monthly and annual totals of rainfall and of the annual numbers of rain days and wet days on large scale maps, of which all except the map of rain days are reproduced in the volume on much reduced scales. Some details of the procedure are set out in *British Rainfall*, 1930, p. xv.

Another opportunity for critically examining the returns is afforded by the preparation of the Rainfall Survey. This examination is more exacting than that undertaken year by year, since the values are plotted on a map of a larger scale and since computed averages can be compared for stations in the same locality, which were not in operation at the same time. Much has been done in improving the accuracy of the future records by correspondence with those observers whose values have appeared inconsistent on the survey maps. In some cases gauges of standard patterns have been lent, and comparisons made with gauges which have been thought to be giving defective records.

In certain cases where a record has been found to be out of harmony with those from surrounding stations, and no explanation of the difficulty has been found after correspondence with the observer, the station has been inspected and the cause of the error ascertained.

AVERAGES PRINTED IN THE GENERAL TABLE OF BRITISH RAINFALL.—Since 1926 a column in the General Table has been devoted to the average annual rainfall at the various stations, and year by year additional values have been given. This information is supplied mainly by the Rainfall Survey which is being carried out for certain counties year by year.

Since 1930 a distinction has been made in the type, according as the average quoted is (a) the mean of the 35 years 1881 to 1915 or has been weighted in this Office to give a computed mean for that period and (b) the mean of a period of 20 years, or more, but unweighted, or computed outside this Office. This column is gradually being completed.

INVESTIGATIONS.—Three articles are printed in Part IV of this volume. The first deals with the frequency of occurrence of daily amounts of specified magnitudes. It is shown, for example, that during the sixty-one years record at Kew Observatory a fall of 1 inch or more occurred during a rainfall day on 18 out of 10,000 days during the winter months and on as many as 78 out of 10,000 days during the summer months. A method is given whereby the probability of occurrence of a daily rainfall of any given magnitude can

be readily obtained at the twenty-four stations distributed over the British Isles, for which detailed statistics are given.

In the second article Mr. F. Hudleston, M.Inst.C.E., of Hutton John, Penrith, gives his seventh report on the experiments he is making at Hutton John into the effects on rainfall measurements of unorthodox exposures, and of the steps which can be taken to mitigate those effects. The most suitable turf wall is found to be of ten feet internal diameter with the crest horizontal and in the plane of the rim of the gauge, which should, of course, be set up with the rim one foot above the ground. The turf wall should be about six inches thick at the top. The inside should be vertical, but the outside should slope down gently, preferably by as little as one in four. It is advisable to put a $2\frac{1}{2}$ inch drain pipe through the wall at its lowest foundation.

The third article contains a map showing the distribution of the average annual rainfall over the Tees Valley. The map was prepared in connexion with the Biological, Chemical and Hydrographical Survey of the River Tees by the Ministry of Health.

Mr. E. G. Bilham contributed two memoranda on *The British Rainfall Organization* and *Rainfall Data in Relation to Inland Water Survey* for the British Association Committee on Inland Water Survey.

A report on the Rainfall of the Tees Valley during the period covered by the Biological, Chemical and Hydrographical Survey was prepared by Dr. J. Glasspoole for the Ministry of Health.

Reference should also be made to the following articles or notes published during the year :—

The York Rainfall 1831—1930; also 1811—1824 and for 114 years, by J. Edmund Clark, *Q.J.R. Meteor. Soc.*, 1933, pp. 151—155.

The rainfall over the British Isles of each of the eleven decades during the period 1820—1929, by J. Glasspoole *Q.J.R. Meteor. Soc.*, 1933, pp. 253—260.

INSPECTIONS.—During the year ended 31st March, 1933, it was possible to inspect only a few rainfall stations. In general these stations had given records out of harmony with others from the neighbourhood, and the inspection was carried out by the Meteorological Officer in charge at a nearby official station.

SURVEY MAPS.—The work on the detailed average annual rainfall map of the British Isles on the scale of two miles to the inch, for the period 1881–1915, has been continued. During the year isohyetal lines have been drawn over Cornwall, Gloucestershire, Rutland, Derbyshire, Lancashire, Cumberland, Westmorland and the remainder of the West Riding of Yorkshire. In drawing these

maps all the available information is used, averages for stations with short records being weighted to the standard period 1881 to 1915 by comparison with nearby stations with complete records. The averages so computed are included in Part III of *British Rainfall.* Reduced copies of specimen maps and a description of the method used in their preparation are given in articles published in Part IV of *British Rainfall* 1928 and 1929. A rainfall map of the Tees Valley is also included in Part IV of this volume.

In drawing these maps the isohyetal lines are naturally somewhat generalised, and if attention is directed to any small area some amplification of the lines there may prove necessary. Moreover, additional records are always being accumulated so that slight modifications in the lines may subsequently prove necessary.

INQUIRIES.—A large number of inquiries regarding the rainfall of various parts of the country was dealt with. Among the more important of these, the following may be mentioned :—

Reports were prepared on the rainfall of certain areas in connexion with the Bridgwater Corporation Bill, Kingston upon Hull Water Bill and the Rhyl U.D.C. Water Bill, over the areas draining to the Caledonian Canal for the Ministry of Transport, over the Derwent Valley Catchment Area, over the Taff Fawr Catchment Area for the Cardiff Water Works and over the River Tees for the Ministry of Health in connexion with the Biological, Chemical and Hydrographical Survey of the River Tees. Copies of rainfall records or rainfall maps and general assistance were given to a number of Catchment Boards including those of the River Ouse (Yorkshire), River Avon (Bristol), River Weaver, River Severn, River Wye, and the Barrow (Ireland) Drainage Board and in connexion with the Stockport Water Bill (Goyt Valley) 1930 and the Galloway Water Power Works. Advice was given to the Lee Conservancy Catchment Board in connexion with the erection of additional rain-gauges in that area.

Reports were supplied monthly to the Metropolitan Water Board and to the Thames Conservancy.

OBITUARY.—During the twelve months 1st July, 1932, to 30th June, 1933, reports have been received of the deaths of 54 observers who have contributed to volumes of *British Rainfall.* Of these thirteen have kept rainfall records, or been associated with relatives who have kept records for 30 years or more. A list of these is given below. In most cases the records have been maintained throughout by the same observer.

Name.	Last place of observation.	No. of years' records.
G. Eames, Esq.	Midhurst, Sussex	64
S. H. Bickham, Esq.	Ledbury, Herefordshire ..	53
Rev. W. A. H. Thorold	West Liss, Hampshire	44
T. Woodham Mott, Esq., ..	Much Hadham, Hertfordshire ..	43
Col. W. Sidebottom	Harewood Lodge, Cheshire ..	40
Capt. J. E. Acland	Dorchester, Dorset	36
Rev. A. G. Jones	Burton House, Hereford ..	36
Rt. Hon. L. Hardy	Hythe, Kent	34
Rev. J. S. Pratt	Bury St. Edmund's, Suffolk ..	34
W. A. Milner, Esq., ...	Totley Hall, Yorkshire ..	33
E. G. B. Lethbridge, Esq., ..	Egloskerry, Cornwall	32
Rev. T. Wolseley Lewis ..	Malvern, Worcestershire ..	30
J. D. Pearson, Esq., ...	Lowdham, Nottinghamshire ..	30

We have also to record the death of Mr. M. J. Salter of Mickleton, the father of the late Mr. M. de Carle S. Salter, Superintendent of the British Rainfall Organization from 1919 to 1923. When Mr. M. J. Salter retired to Mickleton in 1905 he set up a rain-gauge, which he read, until at an age of well over 80, he found the daily recording during the winter months too severe a tax on his failing health. Mr. Salter devoted considerable attention to the precise recording of small quantities, so as to define the number of rain-days with precision. He communicated many of his results to the *Meteorological Magazine* (*e.g.*, 1926 pp. 9—10). Mr. Salter was also interested in wet-days for which he thought different observers could obtain greater accord than in the case of rain-days. Before the record terminated Mr. Salter endeavoured to arrange for another observer in Mickleton but was unsuccessful. Mr. Salter rendered additional assistance to the British Rainfall Organization by undertaking computing work. This included the conversion of inches to millimetres for Section V, Book of Normals and liberal help in connexion with many articles appearing in Part IV of recent volumes of *British Rainfall*.

BRITISH RAINFALL, 1932

PART II

RAINFALL AND METEOROLOGY

1932

1. A BRIEF SUMMARY OF THE RAINFALL OF THE YEAR, 1932.

The rainfall of 1932 over the British Isles as a whole was 102 per cent. of the average. Thus the remarkable run of wet years was continued, although 1932 was the second driest year since 1922, the only drier year in this period being 1929 with 101 per cent. of the average. Since 1922 the accumulated excess of rainfall over the British Isles as a whole has amounted to 101 per cent. of the average annual amount. In the last ten years we have received, therefore, as much rain as falls in eleven years on the average of the standard period, 1881 to 1915. The table below gives the general values over the British Isles as a whole, and for the countries separately, since 1923.

Annual Rainfall as per cent. of Average, 1881–1915.

	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932
	%	%	%	%	%	%	%	%	%	%
England and Wales ..	113	120	106	102	123	115	100	117	109	103
Scotland ..	120	105	100	111	114	123	101	109	104	108
Ireland ..	110	122	99	100	108	126	106	116	111	95
British Isles	114	117	104	103	118	118	101	115	109	102

The general rainfall of the winter six months 1931 to 1932, over the British Isles as a whole, amounted to 20·0 inches, or 3·4 inches less than the average; it was, therefore, the driest winter since that of 1908–1909 when the general rainfall was 18·1 inches. The total for the summer of 1932 was 20·5 inches, and 2·5 inches in excess of the average. After about 1910 wet winters predominated over the country generally, while of more recent years the excesses have been contributed mainly by wet summers. This was again the case in 1932. Recent winters have also been unusually mild with but little snow. The winter of 1931 to 1932 is considered to have been the mildest winter in Scotland for at least 168 years with the one exception of 1845 to 1846 (see *The Meteorological Magazine*, 1932, p. 119). The general rainfall of the seasonal year was 40·5 inches, or ·9 inch less than the average, and it was the driest seasonal year since that of 1928–1929.

The rainfall of the winter six months was less than the average over most of the British Isles apart from a large area stretching from the English Lake District to the Caledonian Canal, and there was less than 70 per cent. over the whole of the south-eastern half of England.

The rainfall of the summer six months was in excess of the average over most of the British Isles. At Cranwell Aerodrome the total rainfall during the summer was 20·80 inches or 179 per cent. of the average. The excess was due largely to the heavy rainfalls of July 11th and 13th when 5·14 and 2·40 inches respectively were recorded.

The rainfall of the calendar year was most striking in Ireland where the average was exceeded over only small areas; less than the average was also recorded over the south-east of England and along the east coast of Scotland. Reference should also be made to the large area stretching across the country from the Black Mountains and Salisbury Plain to the Wash with more than 110 per cent. The total at Cranwell Aerodrome was as much as 124 per cent. More than 120 per cent. occurred in Scotland near Loch Ness, to the south of Ben Nevis, near Glasgow and over large areas in the Southern Uplands.

Over the British Isles as a whole the rainfall of February was less than that of any other month in the series back to 1870. The general rainfall of May over England and Wales amounted to 215 per cent. of the average and, apart from May, 1924, with 217 per cent., May, 1932, was the wettest May during the last 160 years. As much as 34·7 inches was recorded at Stye Head above Borrowdale during January. No measurable rain fell at a large number of stations during February.

The general number of rain-days over the British Isles was 204 or exactly the average number. Over England and Wales and over Scotland the number of rain-days was two more than the average. Ireland with 214, or six less than the average, had less than in any year back to 1919 when there were 213.

Droughts were numerous during 1932, only four out of the 100 selected stations failing to record either a drought or a dry spell. The total number of rain spells at the 100 stations was 150 or 22 less than the average; this total, although 29 more than that recorded in 1931, is smaller than in any other year back to 1919. Droughts in the south of England are by no means uncommon, but wet weather often occurs concurrently in the north-western half of the British Isles. The rainfall of the six weeks, January 21st to March 3rd, was unusual in that while there was some rain everywhere in the British Isles the amounts were always small. After a few days of appreciable rainfall there was a renewal of dry weather until March 19th, but in the northern half of Scotland wet weather continued. At Camden Square (London) the total rainfall for the 65 days, January 17th to March 21st, amounted only to ·51 inch. Since 1858 only two longer partial droughts have been recorded, *viz.*, June 4th to August 11th, 1921 (69 days) and February 28th to May 16th, 1893 (78 days).

Intense falls of rain were more frequent during 1932 than usual, although they were not as numerous as in either 1930 or 1931. Most of the intense falls qualifying for mention in Section 6 occurred in July and August. The most noteworthy was that recorded at Cranwell Aerodrome, Lincolnshire, on July 11th, when 4·96 inches fell in two hours, of which 4·18 inches fell in 90 minutes. The thunderstorms experienced during August occurred at the close of two unusually warm periods around the 11th and 19th. On the 19th the temperature reached 90° F. in many parts of southern England and the Midlands, while stations as far apart as Camden Square (London), Norwich and Oxford recorded the highest maximum in records covering more than 50 years in each case. During the early morning of August 12th, as much as 2·24 inches of rain and hail fell in 45 minutes at Rickmansworth, Hertfordshire.

The total number of heavy falls on rainfall days recorded during 1932 was larger than in most years, although less than in 1931. There were as many as 158 entries of 3 inches or more, of which 19 reached or exceeded 4 inches. The largest amount was 5·33 inches, recorded at Barnoldswick (Rainhall Road) on July 11th. At Borrowdale (The Moraine) as much as 5·18 inches was recorded on December 16th and 4·05 inches the following day. It is said to have rained in Borrowdale almost continuously for three days and as a result Derwentwater and Bassenthwaite became joined in one huge lake. As much as 5·14 inches was recorded at Cranwell Aerodrome for July 11th, representing 17·8 per cent. of the total rainfall for the whole year.

Another outstanding feature of the weather of the year was the succession of cyclonic rains in April and May, culminating in the heavy rains of May 20th to 23rd, which produced widespread flooding, especially in the Bentley district of the Don Valley. The general rainfall over the Don Valley above Doncaster for the four days, May 20th to 23rd, is computed as ·57, 2·50, ·42 and ·13 inch, respectively.

2. THE DISTRIBUTION OF RAINFALL IN TIME. THE NUMBER OF RAIN-DAYS AND WET-DAYS IN 1932.

The following definitions have been used in *British Rainfall* in order to obtain a homogeneous series of statistics :—

A *rain-day* is a period of 24 hours, commencing normally at 9 a.m., on which ·01 inch, or 0·2 mm. or more of rain is recorded.

A *wet-day* is a period of 24 hours, commencing normally at 9 a.m., on which ·04 inch, or 1·0 mm. or more of rain is recorded.

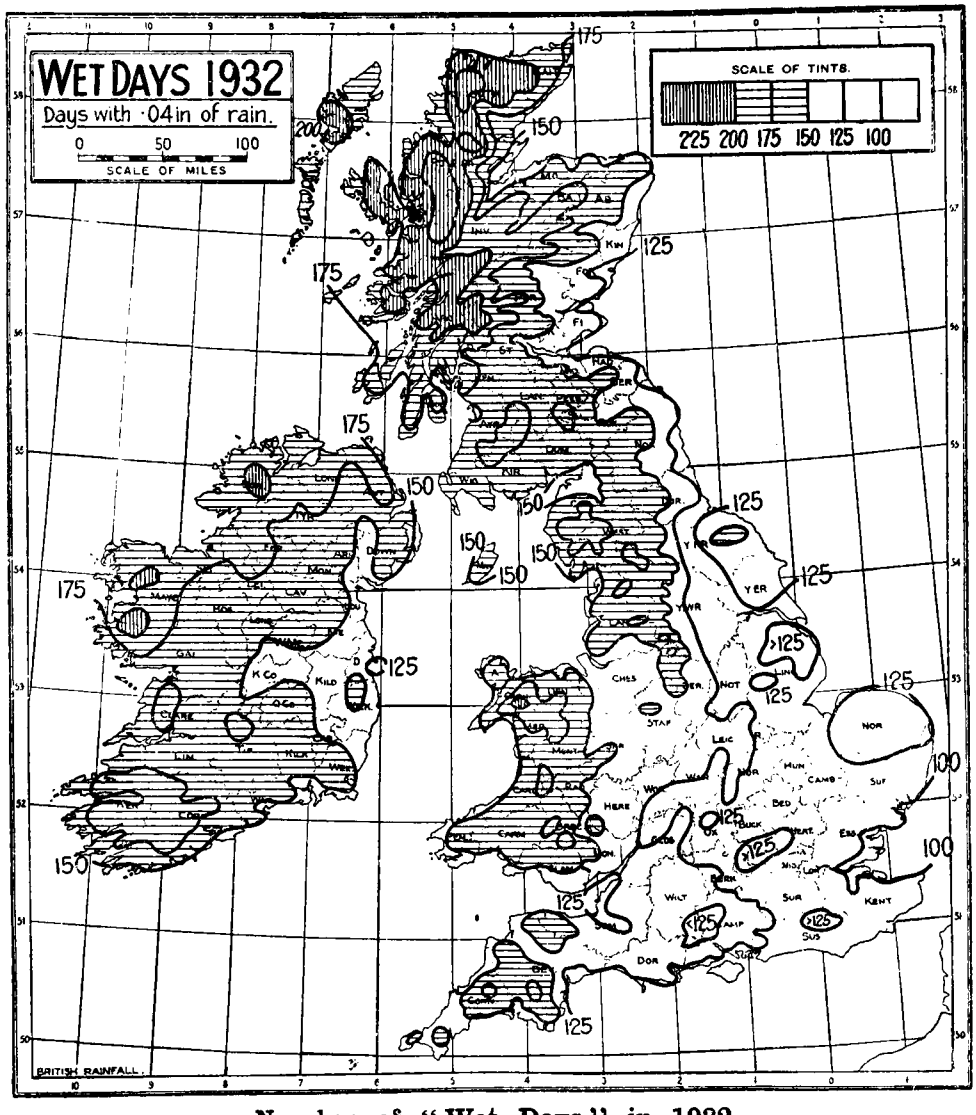
The former definition dates from the year 1865, the latter was adopted only about 1917. Each of the terms " rain-day " and " wet-day " is open to criticism, the latter particularly so, since it has a different meaning in ordinary use. It must, therefore, be understood that whenever these terms are used in this publication the meanings set out above are always to be attached to them.

For reasons which are set out in detail in the article entitled " The distribution over the British Isles in time and space of the annual number of days with rain," in *British Rainfall*, 1926, there is frequently a lack of harmony in the annual values at adjacent stations. In fact, the observed differences are sometimes so much greater than that of any other climatic factor, that there is little doubt that some of the individual values are incorrect. Statistics of wet-days were found to be much more consistent. It was this reason, coupled with the fact that similar data are published for certain other countries of Europe, which led to the introduction of statistics of wet-days.

Latterly, however, attention has been re-directed to the improvement of the statistics of rain-days. The Meteorological Office has standardised a new taper measure and new regulations for reporting small quantities of rain have been brought into use. These are set out in " Rules for Rainfall Observers " and in *British Rainfall*, 1931, pp. 5—7.

Information as to the number of rain-days and wet-days during the year is set out in this volume in various forms. As usual, the General Table of rainfall in Part III of this volume shows the number of rain-days and wet-days in 1932 as reported from each station at which daily observations were made. The number of wet-days have been plotted on a large map of which the illustration on p. 6 is a reduced copy. The distribution of the numbers is shown on the map in the usual manner.

In order to study the distribution of rain-days and wet-days throughout the year, 100 stations have been selected to represent as uniformly as possible the conditions over the whole of the British Isles. The stations are the same as those used last year except that



Number of "Wet Days" in 1932.

Waterford (Gortmore) and Armagh Observatory have replaced Kilmacthomas (Comragh House) and Galway (Grammar School), since these records are no longer available for that table. The number of rain-days and wet-days for each month, as well as for the whole year, have been extracted from the returns from the 100 stations and printed in Table V. Monthly general numbers (for England and Wales, Scotland, Ireland and for the British Isles) have been worked from these data and they are shown in the table in heavy type. The annual mean values for 1932 are shown again in Tables I and III and the monthly mean values for 1932 in Tables II and IV, where in each case they can be readily compared with similar values for the intervening years from 1917; and with the averages. In the case of rain-days averages are available for the standard period 1881 to 1915, but for wet-days the averages cover only the period 1917 to 1932.

The map of the annual number of wet-days during 1932 is very similar to those for earlier years. As in all the other maps there is a steady increase in the number of wet-days from the south-east to the north-west of the British Isles and from the plains of the east coast to the mountainous regions of the west. In 1932 the number varied from about 100 in the neighbourhood of the Thames Estuary and in the Fen District, to rather more than 225 in the Western Highlands of Scotland. Less than 125 wet-days occurred along the south coast as far as Torquay, over much of the south-east of England, over the Midlands as far east as Gloucester and Nottingham, along the east coast of Great Britain as far north as Montrose, as well as in the neighbourhood of Clevedon and Dublin. More than 200 wet-days occurred in Snowdonia, over much of the Western Highlands of Scotland, including part of the Outer Hebrides, and in parts of Connemara and Donegal.

The total number of rain-days varied from rather less than 150 in the neighbourhood of the Thames Estuary, to over 250 in parts of the Inner and Outer Hebrides and Sutherlandshire. The numbers recorded in all parts of the country were very close to those shown by the average map for the period 1881 to 1915 (see *British Rainfall*, 1926, p. 264).

The general values given in Table III indicate that the frequency of wet-days was less than the average for the period 1917 to 1932. The number for 1932 was seven less for England and Wales, thirteen less for Scotland, seventeen less for Ireland and eleven less than the average for the British Isles as a whole.

It should be emphasized that in the case of wet-days comparable statistics are only available back to 1917, and the averages used for comparison are for the period 1917 to 1932, which includes mainly wet years. The averages are therefore greater than they would have been if statistics covering the standard period 1881 to 1915 were available. This fact is brought out by Table I, which shows that the mean annual number of rain-days during 1917 to 1932 was 213 or seven more than the average for the standard period 1881 to 1915.

The number of wet-days over the British Isles in each month is given in Table IV. There were 20 wet-days in October and only 3 in February and 5 in June. There were five more wet-days than the average number for 1917 to 1932 in both April and October, while there were nine fewer in February and five fewer in June and August. The number during the summer half year was two more than the average. The number of wet-days in February, *viz.*, 3, was less than that in any month since March, 1929, and less than that in any February since before 1917. The number in August was less than in any other August apart from that of 1920 when the number was also nine.

In dealing with the general numbers of rain-days, given in Tables I and II, it is possible to compare the values for 1932 with computed averages for the 35 years, 1881 to 1915. It is shown in Table I that over the British Isles as a whole there were 204 rain-days or exactly the average number. The total excess of rain-days since 1918, over the average number, remains therefore at 141, or as many as usually occur in about eight months.

The number of rain-days during 1932 was two more than the average over England and Wales and over Scotland and six less over Ireland. The number for Ireland was less than in any year back to 1919, when there were 213 rain-days.

The number of rain-days over the British Isles in each month is given in Table II. There were 25 in October, while February and June had the smallest number with 7. More than the average number of rain-days occurred in April, May, July, September and October, the excess varying from four to seven days. The number of rain-days was ten less than the average during February and seven less during June. The number of rain-days in February, *viz.*, 7, was less than that in any February since before 1917.

During the year the mean number of rain-days per month was 17, or the same as the average. Of these, 13 received sufficient rain to rank as wet-days. There were six more rain-days than wet-days in May and two only in June. In the other months there were either five or four more, a difference of five days occurring during each of the last five months of the year.

Only one of the 100 selected stations failed to record a rain-day during any calendar month of 1932, but one or two other examples of absolute droughts lasting for at least 31 days are given in Section 3, Droughts and Dry Spells. At Greenock (Prospect Hill) there was no rain from February 1st to March 3rd. There was only one rain-day during February at St. Austell (Trevarna), Carmarthen (The Friary), Strathaven (Dungavel), Maybole (Culzean Gardens) and at Mallaranny. A number of stations recorded no wet-days during February. These stations occurred in the south of England in the neighbourhood of the Cheshire Plain, in South Wales, in the south-west of Scotland, in Fifeshire and in parts of Ireland. Most stations in the British Isles recorded less than 10 rain-days during June, there being only three rain-days and one wet-day at Cambridge. The small numbers of rain-days and wet-days in the south-east of England during December are also worthy of comment, there being only four rain-days and two wet-days at Cambridge.

As many as 31 rain-days were reported for Balmoral Castle Gardens and 30 for Skye (Portree) in October, and there were 28 wet-days in the same month at Mull (Gruline) and Skye (Portree). As many as 29 rain-days occurred in the north-west of Scotland during September, of which 29 ranked as wet-days at Loch More (Achfary).

Table I.—*Annual General Number of Rain-days (Days with ·01 in. or more) in* 1917-1932, *compared with Average,* 1881-1915†.

Year.	England and Wales. Average 188.			Scotland. Average 217.			Ireland. Average 220.			British Isles. Average 204.		
	Rain Days.	Diff. from Aver.	Per cent. of Aver.	Rain Days.	Diff. from Aver.	Per cent. of Aver.	Rain Days.	Diff. from Aver.	Per cent. of Aver.	Rain Days.	Diff. from Aver.	Per cent. of Aver.
1917	185	− 3	98	217	0	100	224	+ 4	102	203	− 1	100
1918	200	+ 12	106	226	+ 9	104	227	+ 7	103	214	+ 10	105
1919	191	+ 3	102	214	− 3	99	213	− 7	97	203	− 1	100
1920	203	+ 15	108	232	+ 15	107	243	+ 23	110	220	+ 16	108
1921	158	− 30	84	224	+ 7	103	217	− 3	99	190	− 14	93
1922	196	+ 8	104	234	+ 17	108	226	+ 6	103	214	+ 10	105
1923	216	+ 28	115	257	+ 40	118	253	+ 33	115	236	+ 32	116
1924	202	+ 14	107	237	+ 20	109	248	+ 28	113	223	+ 19	109
1925	192	+ 4	102	231	+ 14	106	230	+ 10	105	212	+ 8	104
1926	192	+ 4	102	234	+ 17	108	226	+ 6	103	211	+ 7	103
1927	208	+ 20	111	233	+ 16	107	238	+ 18	108	223	+ 19	109
1928	204	+ 16	109	240	+ 23	111	247	+ 27	112	225	+ 21	110
1929	165	− 23	88	217	0	100	218	− 2	99	192	− 12	94
1930	207	+ 19	110	223	+ 6	103	232	+ 12	105	217	+ 13	107
1931	199	+ 11	106	233	+ 16	107	235	+ 15	107	217	+ 13	106
1932	190	+ 2	101	219	+ 2	101	214	− 6	97	204	0	100

† The averages for the period 1881–1915 are based on the records from about 100 stations distributed as evenly as possible over the country. The selection of stations is described in an article in *British Rainfall,* 1926, p. 267, and the general number of rain-days in each year from 1881 will be found in Table I of that article.

Table II.—*Monthly General Number of Rain-days (days with ·01 in. or more) in* 1917 *to* 1932, *British Isles, with Average,* 1881-1915‡.

	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
1917 ..	15	12	19	16	13	14	12	23	17	25	20	17	203
1918 ..	20	20	12	12	13	13	19	17	25	22	16	25	214
1919 ..	23	12	20	18	11	16	11	16	16	14	20	26	203
1920 ..	24	17	21	23	19	13	24	13	17	13	16	20	220
1921 ..	25	9	23	11	17	7	12	20	11	16	16	23	190
1922 ..	24	20	17	18	13	15	21	19	17	12	16	22	214
1923 ..	22	24	15	17	19	13	18	21	20	25	19	23	236
1924 ..	22	15	10	16	23	17	20	23	20	19	16	22	223
1925 ..	18	23	16	19	23	5	16	17	21	19	15	20	212
1926 ..	24	20	14	17	19	14	14	17	16	17	24	15	211
1927 ..	23	16	21	18	12	20	18	21	22	17	21	14	223
1928 ..	27	17	21	16	11	20	14	19	12	23	23	22	225
1929 ..	14	14	5	13	14	15	14	21	11	22	23	26	192
1930 ..	23	9	19	16	15	12	18	23	18	24	19	21	217
1931 ..	22	22	11	19	19	18	22	15	14	15	22	18	217
1932 ..	19	7	15	22	21	7	20	13	20	25	17	18	204
Average	19	17	18	15	15	14	16	17	15	19	19	20	204

‡ The average general values for England and Wales, Scotland and Ireland separately are given in *British Rainfall,* 1927, p. 7, and are discussed in an article on *The Distribution over the British Isles of the average number of days with rain during each month of the year.*—Q.J.R. Meteor. Soc. Vol. 54, 1928.

Table III.—*Annual General Number of Wet-days (Days with ·04 in. or more) in* 1917 *to* 1932, *with Average.*

	England and Wales.	Scotland.	Ireland.	British Isles.
1917	134	174	176	155
1918	150	182	188	168
1919	143	172	171	158
1920	151	185	197	171
1921	110	177	166	142
1922	146	181	178	163
1923	159	206	198	182
1924	154	184	199	173
1925	143	179	180	162
1926	141	184	173	161
1927	156	184	185	171
1928	151	193	200	175
1929	121	170	170	147
1930	155	174	186	168
1931	145	180	182	163
1932	136	168	165	152
Average 1917-32	143	181	182	163

Table IV.—*Monthly General Number of Wet-days (Days with ·04 in. or more) in* 1917 *to* 1932, *British Isles, with Average.*

	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
1917 ..	11	8	14	13	10	10	9	20	12	21	15	12	155
1918 ..	15	17	9	9	10	9	15	12	22	16	13	21	168
1919 ..	19	9	15	14	8	12	8	12	13	11	15	22	158
1920 ..	20	13	17	19	15	10	19	9	13	9	12	15	171
1921 ..	20	5	17	8	13	5	10	15	7	12	12	18	142
1922 ..	20	16	13	14	9	11	16	15	13	8	11	17	163
1923 ..	15	20	11	13	14	8	13	17	16	21	16	18	182
1924 ..	17	9	7	12	19	13	17	18	16	15	12	18	173
1925 ..	14	19	11	15	18	3	12	13	15	14	12	16	162
1926 ..	20	15	9	12	15	11	11	13	12	14	19	10	161
1927 ..	19	13	17	13	8	16	13	17	17	13	15	10	171
1928 ..	23	13	16	11	8	16	10	15	9	19	18	17	175
1929 ..	9	10	3	8	11	11	11	16	8	17	20	23	147
1930 ..	19	5	14	12	11	9	14	18	14	20	16	16	168
1931 ..	17	18	7	14	15	14	17	11	9	11	18	12	163
1932 ..	15	3	11	18	15	5	16	9	15	20	12	13	152
Average 1917-32	17	12	12	13	13	10	13	14	13	15	15	16	163

Table V.—*Number of "Rain-days" (·01 in. or more) and of "Wet-days" (·04 in. or more) in* 1932.

County and River Division.	Station.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Year.	Total Rainfall.
ENGLAND AND WALES.															in.
London 2	St. Pancras (Camden Square)	13 11	6 3	12 8	23 18	23 16	4 2	12 10	8 6	20 12	23 18	17 10	6 4	167 118	23·29
Kent 2	Lympne Aerodrome	18 10	12 3	13 7	20 17	22 14	7 5	14 10	9 3	19 12	24 19	13 7	13 3	184 110	27·37
Sussex 3	Patcham (Brighton W.W.) ...	18 14	7 1	9 6	18 16	19 16	7 4	12 10	8 4	17 16	21 19	10 8	8 5	154 119	29·07
Hampshire .1	Ventnor (Royal National Hos.)	20 10	5 0	8 6	22 15	21 12	7 5	14 10	6 4	17 12	22 17	14 9	14 7	170 107	32·23
Hampshire..7	Selborne (The Wakes)	17 12	9 4	11 8	23 18	21 16	7 5	17 13	10 6	20 16	22 20	21 9	13 8	191 135	37·06
Berkshire ..5	Upton (Manor House)	12 7	7 0	11 8	23 15	25 19	6 4	17 10	7 4	19 14	22 18	19 8	12 4	180 111	25·70
Northants ..4	Wellingborough (Swanspool)..	13 9	11 1	13 8	21 19	21 15	6 5	18 12	10 6	20 14	21 16	17 8	13 5	187 118	25·12
Northants ..4	Eye (Northolm)	12 5	11 4	10 6	23 17	24 15	8 4	17 13	13 10	20 12	24 15	17 5	12 3	191 109	22·21
Cambridge .2	Cambridge (Botanic Gardens).	8 6	6 1	10 8	17 13	20 14	3 1	16 12	9 7	11 11	16 15	13 8	4 2	136 98	20·92
Essex 3	Great Wakering	12 5	7 3	11 8	19 14	18 12	6 4	13 9	7 6	14 8	22 16	10 7	5 3	144 95	18·97
Suffolk 2	Haughley (Haughley House) .	8 6	7 2	10 8	21 15	24 18	5 2	14 12	9 6	15 9	21 17	13 10	7 3	154 108	19·67
Norfolk 1	Gorleston	12 8	13 6	13 9	22 15	25 20	7 2	16 15	9 7	16 10	25 19	13 9	11 3	182 123	20·80
Norfolk 4	Sporle	14 8	17 7	15 7	26 21	26 22	8 4	21 16	12 9	17 13	23 20	19 9	12 6	210 142	28·79
Wiltshire ...3	Larkhill (Sch. of Artillery) ...	14 9	3 0	9 7	21 16	19 13	6 4	14 11	8 7	19 14	22 19	16 7	18 7	169 114	28·50
Dorsetshire .3	Poole	15 10	3 1	10 8	24 17	21 18	10 7	15 10	7 4	14 12	22 17	13 10	13 6	167 120	29·57
South Devon4	Holne (Church Park Cottage).	21 17	2 0	13 12	24 19	23 21	5 4	19 16	12 6	21 18	27 20	21 13	22 15	210 161	74·48
North Devon2	Barnstaple (N.Dev.Athenæum)	20 15	5 1	14 10	21 17	23 14	4 2	22 15	14 8	24 18	28 24	18 14	21 12	214 150	35·85
North Devon3	Okehampton (Uplands).....	19 16	3 0	16 10	23 20	22 13	5 3	21 15	11 8	22 19	28 22	17 15	18 13	205 154	56·88
Cornwall ...2	St. Austell (Trevarna)	19 13	1 1	13 9	23 21	21 17	4 4	20 17	12 8	21 18	25 21	17 14	20 15	196 158	48·59
Somerset ...1	Bath (Henrietta Park)	17 11	2 0	10 8	24 18	25 16	5 4	17 14	9 5	20 17	23 19	16 8	10 7	178 127	33·47
Somerset ...3	Angersleigh (Leigh Court)	16 11	2 1	12 8	21 20	23 17	5 4	20 12	8 5	20 15	26 21	19 12	17 11	189 137	38·79
Hereford ...1	Ross (Birchlea)	15 11	8 1	12 9	23 18	23 18	5 4	17 11	7 6	17 14	20 17	19 6	18 10	184 125	32·76
Shropshire ..3	Bishops Castle (Castle Street) .	15 13	6 2	14 14	23 19	23 20	4 4	21 17	6 6	20 16	20 18	18 13	13 11	183 153	34·46
Shropshire ..4	Shifnal (Hatton Grange).....	17 12	10 1	11 9	27 20	25 18	7 5	23 15	9 7	21 14	25 22	19 13	16 9	210 145	28·91
Staffs.....5	Ashbourne (Mayfield House)..	14 11	10 2	12 8	22 17	18 15	6 4	18 16	9 5	18 15	23 20	18 14	15 9	183 136	30·45

Table V.—*Number of "Rain-days" (·01 in. or more) and of "Wet-days" (·04 in. or more) in* 1932.—(*con.*).

County and River Division.	Station.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Year.	Total Rainfall.
ENGLAND AND WALES—(*con.*)															in.
Warwick ...1	Warwick Castle Gardens	14 8	9 2	11 11	25 19	22 17	6 4	15 10	8 5	17 13	23 16	16 9	12 7	178 121	27·90
Leicester ...4	Leicester (Stoughton Drive)..	12 9	8 6	10 9	23 19	22 15	5 5	15 13	7 7	17 15	21 17	14 10	11 6	165 131	27·04
Lincoln 3	Horncastle	11 5	15 8	13 7	25 15	22 16	7 3	18 12	11 8	19 10	21 18	14 9	14 6	190 117	23·39
Nottingham.5	Worksop (Hodsock Priory) ..	13 6	12 4	11 7	25 16	22 13	4 3	20 12	9 6	14 9	21 16	18 11	19 7	188 110	22·55
Cheshire ...2	Northwich (Hunts Lock).....	17 10	9 0	12 9	24 20	25 16	8 4	21 15	11 6	21 16	26 18	19 12	16 7	209 133	28·83
North Lancs.5	Blackpool (Met. Observatory).	20 14	3 0	11 7	22 16	20 17	7 4	20 18	12 6	20 17	28 20	18 13	20 11	201 143	35·16
Yorks. W.R.8	Meltham (Harewood Lodge) ..	17 13	15 4	11 10	24 22	25 19	5 4	22 19	12 6	21 14	24 19	22 18	21 15	219 163	44·57
Yorks. E.R..3	Hull (Pearson Park)	11 6	14 6	15 8	23 17	21 14	5 3	15 12	10 6	15 12	24 18	22 13	19 7	194 122	22·44
Yorks. E.R..4	Filey Vicarage	12 7	11 7	19 11	23 14	23 18	6 1	19 13	10 6	17 14	25 17	18 8	18 9	201 125	22·98
Yorks. N.R..1	West Witton (Ivy House).....	18 13	10 4	16 8	22 17	23 18	4 4	21 15	8 3	19 16	22 15	20 14	19 15	202 142	32·44
Yorks. N.R. 2	Felixkirk (Mount St. John) ..	13 9	12 8	14 8	18 9	24 16	7 2	18 17	7 4	16 12	26 19	20 11	19 11	194 126	28·27
Durham ...2	Sunderland (W. Hendon Ho.).	12 8	12 8	16 11	20 11	23 18	8 3	18 13	12 5	15 10	25 18	18 9	14 7	193 121	24·20
North'land..6	Ilderton (Lilburn Tower Gdns.)	14 9	11 8	15 13	20 16	25 19	7 5	18 17	13 6	19 12	26 19	15 10	18 12	201 146	28·82
Cumberland.1	Geltsdale	18 17	10 3	16 14	19 18	18 15	9 7	20 15	13 10	18 15	26 23	17 13	21 12	205 162	37·81
Westm'land.2	Grasmere (The Wray).....	26 22	5 1	16 13	24 22	25 16	9 5	23 19	15 10	21 19	29 24	17 14	22 21	232 186	103·29
Glamorgan..6	Treherbert (Tyn-y-waun).....	21 18	5 2	13 12	26 22	23 21	5 4	18 18	11 8	20 16	27 23	20 17	21 16	210 177	96·81
Carmarthen.2	Carmarthen (The Friary).....	21 20	1 0	13 11	20 19	21 20	6 4	21 18	11 5	17 13	25 20	17 13	20 17	193 160	49 46
Pembroke ..4	Haverfordwest (Portfield)	23 19	4 1	15 10	23 18	25 18	4 4	18 12	13 7	15 11	26 23	16 13	22 18	204 154	43·50
Cardigan ...3	Lampeter (Falcondale).....	22 15	5 1	15 10	24 21	21 17	7 5	23 22	10 6	19 15	25 24	19 16	22 17	212 169	53·45
Denbigh ...2	Denbigh (Garn)	18 15	6 0	12 11	23 20	22 16	7 6	21 18	10 6	19 14	26 21	19 12	20 12	203 151	34·26
Merioneth ..4	Dolgelley (Bontddu)	20 16	3 1	15 11	22 21	27 23	6 4	20 17	14 11	19 15	28 25	19 16	20 15	213 175	61·56
Anglesey	Llanerchymedd (Ll'diarth Es.)	25 17	5 2	15 11	19 19	25 18	6 3	19 16	12 7	18 17	25 23	19 16	23 20	211 169	38·84
England and Wales	**(Mean of 47 Stations)**.....	**16 11**	**8 3**	**13 9**	**22 18**	**22 17**	**6 4**	**18 14**	**10 6**	**18 14**	**24 19**	**17 11**	**16 10**	**190 136**	**35·98**

Table V.—*Number of "Rain-days" (·01 in. or more) and of "Wet-days" (·04 in. or more) in* 1932.—(*con.*).

County and River Division.	Station.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Year.	Total Rain-fall.
ISLE OF MAN.															in.
Isle of Man ..	Douglas (Borough Cemetery)..	21 16	4 2	14 7	21 19	19 13	8 4	20 16	14 9	20 18	28 19	16 12	25 22	210 157	46·05
CHANNEL ISLANDS.															
Guernsey	St. Peter Port (Grange Road).	20 13	7 6	14 12	25 16	18 14	6 5	19 9	12 3	20 17	25 22	17 11	14 10	197 138	30·91
SCOTLAND.															
Wigtown ...3	Whithorn (Physgill)	18 15	4 0	11 8	22 19	18 14	8 5	19 12	16 10	22 15	27 20	14 12	21 15	200 145	37·80
Dumfries ...3	Dumfries (Crichton Inst.)	22 21	4 0	14 9	18 14	14 11	4 3	20 15	15 7	18 16	25 17	12 11	20 16	186 140	40·22
Peebles.... 1	Edin. W.W. (Victoria Lodge)..	21 21	8 3	16 15	20 18	18 17	7 5	25 23	17 8	18 15	26 22	18 12	24 20	218 179	58·08
Berwick 4	Duns Castle	16 9	11 6	19 13	22 15	24 18	5 4	18 13	14 8	16 11	24 21	20 9	22 12	211 139	28·75
W. Lothian 2	Linlithgow Academy	17 16	5 0	17 12	22 15	18 13	6 4	16 15	6 4	15 12	25 23	12 10	23 19	182 143	33·37
Lanarkshire.5	Strathaven (Dungavel).....	23 20	1 0	16 11	19 16	17 13	8 7	26 18	20 13	21 18	27 22	14 13	25 17	217 168	56·86
Ayrshire....6	Maybole (Culzean Castle).....	22 17	1 0	10 8	18 12	18 8	8 5	20 16	14 11	19 18	27 24	14 12	20 16	191 147	46·02
Renfrew ...3	Greenock (Prospect Hill).....	24 19	0 0	15 10	25 18	13 9	8 4	22 14	18 13	19 17	25 19	17 14	20 20	206 157	62·21
Buteshire ..3	Dougarie Lodge.....	21 15	2 0	14 10	20 16	19 10	8 6	26 21	17 14	20 15	29 26	17 12	20 18	213 163	44·14
Argyllshire 11	Crarae Lodge	27 25	5 1	17 15	22 18	14 9	10 9	27 23	18 17	24 21	28 24	15 15	21 21	228 198	79·91
Argyllshire.14	Islay (Ardbeg).....	25 18	4 1	17 13	23 17	14 11	9 8	20 19	16 13	19 17	27 26	19 17	20 18	213 178	45·11
Argyllshire.14	Mull (Gruline)	28 24	17 5	23 17	25 19	16 10	13 10	23 20	19 13	26 21	29 28	17 15	25 20	261 202	82·61
Argyllshire.14	Tiree (Cornaigmore Sch.).....	26 20	9 2	20 16	25 17	15 7	10 6	22 16	20 14	24 19	28 25	18 15	19 18	236 175	41·07
Fifeshire....3	Leuchars (Training Base)	15 11	4 0	17 9	19 12	16 12	4 3	17 15	11 2	14 10	25 18	15 11	17 11	174 114	25·76
Perthshire .11	Aberfeldy (Dall Avon)	18 13	7 1	14 10	22 16	14 9	6 5	21 18	12 6	15 12	26 19	18 11	21 16	194 136	39·10
Kincardine .2	Stonehaven (Mains of Cowie)..	15 11	4 1	14 14	17 14	21 17	4 3	22 16	10 7	11 9	25 21	15 10	17 12	175 135	27·70
Aberdeen ..1	Balmoral (Castle Gardens) ...	22 15	18 5	21 14	29 21	27 18	11 5	27 15	10 5	25 15	31 21	23 12	22 16	266 162	37·04
Aberdeen ..4	Peterhead (Forehill Works) ..	15 11	18 8	23 15	24 17	24 15	9 5	20 12	12 10	21 19	27 25	16 13	15 11	224 161	29·26
Morayshire .2	Gordon Castle	14 10	13 5	20 16	19 16	20 11	7 2	21 15	11 8	24 17	29 23	15 12	16 10	209 145	29·12
Inverness ..3	Cluny Castle	26 20	13 1	19 14	24 20	21 15	8 4	24 22	15 12	23 23	28 25	20 15	21 18	242 189	45·07
Inverness .16	Fort William (The Factory) ..	29 27	10 1	17 15	18 17	19 11	12 7	25 23	19 17	25 21	26 24	20 16	23 19	243 198	78·33

Table V.—*Number of "Rain-days" (·01 in. or more) and of "Wet-days" (·04 in. or more) in* 1932.—(*con.*).

County and River Division.	Station.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Year	Total Rain-fall.
SCOTLAND —(*con.*).															in.
Inverness .18	Skye (Portree)	26 26	14 9	22 19	26 21	17 15	11 10	22 18	20 15	29 24	30 28	19 17	22 22	258 224	70·58
R'&Cromarty3	Fortrose	18 13	10 4	18 15	17 14	19 9	7 2	23 16	16 8	20 18	24 16	13 8	14 11	199 134	28·96
R'&Cromarty8	Poolewe (Inverewe Gardens) .	26 26	11 4	19 15	25 19	14 9	11 9	23 20	20 16	29 26	28 25	18 17	18 17	242 203	52·26
R'&Cr'm'rty10	Stornoway	29 26	16 5	20 14	24 21	17 13	12 7	22 14	23 18	26 21	29 23	19 18	22 18	259 198	46·88
Sutherland .1	Lairg	21 17	9 5	16 13	23 16	22 15	7 4	23 16	17 13	21 20	19 17	17 12	12 6	207 154	36·52
Sutherland .5	Loch More (Achfary)	28 25	18 14	22 19	25 23	20 16	13 10	24 19	21 21	29 29	29 27	20 19	18 15	267 237	89·83
Caithness ..3	Thurso (Buckies)	19 17	16 11	23 18	22 21	16 14	8 8	19 18	14 13	24 21	22 20	16 13	16 15	215 189	36·15
Scotland	**(Mean of 28 Stations)**.....	**22 18**	**9 3**	**17 14**	**22 17**	**18 13**	**8 6**	**22 17**	**16 11**	**21 18**	**27 22**	**17 13**	**20 16**	**219 168**	**47·45**
IRELAND.															
Co. Cork....6	Dunmanway (The Rectory)..	25 20	6 5	15 13	24 22	20 15	9 7	21 15	16 13	21 17	21 19	22 17	22 20	222 183	55·57
Co. Cork....7	Glanmire (Lota Lodge)	24 20	4 3	13 10	21 20	19 14	5 4	21 18	18 13	16 12	18 16	15 11	21 19	195 160	39·95
Co. Cork....9	Mallow (Longueville)	25 18	6 3	18 14	21 16	25 19	9 5	24 16	19 12	19 16	25 16	21 14	22 21	234 170	38·85
Co. Kerry...3	Cahirciveen (Valentia Obsy.)..	23 20	4 2	15 15	25 20	20 15	10 7	23 20	19 16	22 17	26 15	17 14	21 20	225 181	48·98
Co.Waterford 3	Waterford (Gortmore)	23 15	11 4	13 10	21 17	22 17	4 2	21 13	15 9	15 10	22 13	17 10	21 18	205 138	36·66
Co.Tipperary1	Nenagh (Castle Lough).....	21 16	10 4	16 14	25 18	23 18	8 7	24 18	18 9	22 18	25 19	19 16	23 18	234 175	38·50
Co.Tipperary3	Cashel (Ballinamona)	22 13	4 0	14 10	24 18	24 20	5 3	23 17	12 7	20 12	21 19	16 12	23 18	208 149	32·16
Co. Limerick 2	Foynes (Coolnanes).....	19 14	5 1	14 11	25 20	14 9	6 5	23 16	20 7	21 16	27 19	18 13	20 19	212 150	33·96
Co. Wexford 4	Gorey (Courtown House)	19 12	9 1	14 12	21 15	27 20	4 2	19 14	13 9	15 7	21 12	12 10	21 16	195 130	37·02
Co. Leix....2	Abbey Leix (Blandsfort).....	20 16	6 4	16 10	23 20	20 16	5 4	23 16	14 10	18 13	24 16	19 12	23 18	211 155	35·45
Co. Dublin..2	Dublin (Fitz William Square).	14 11	6 1	13 8	21 15	25 16	5 3	27 17	11 5	16 10	22 13	11 8	20 13	191 120	25·01
Co. Meath ..4	Kells (Headfort)	20 17	5 2	14 9	18 16	18 18	6 5	24 20	11 8	19 15	20 15	13 13	21 17	189 155	33·34
Co. W'meath1	Mullingar (Belvedere Ho.)....	20 15	2 1	14 11	21 19	18 16	8 6	24 19	16 11	22 16	23 17	14 9	20 17	202 157	34·42
Co. Longford2	Castle Forbes Gardens.....	18 17	2 1	12 12	21 17	17 17	6 4	19 16	12 10	14 14	21 20	13 11	20 20	175 159	35·39
Co. Galway .3	Ballynahinch Castle	26 23	3 2	18 13	24 23	20 16	11 9	27 23	21 15	24 18	27 22	17 15	21 18	239 197	49·72

Table V.—*Number of "Rain-days" (·01 in. or more) and of "Wet-days" (·04 in. or more) in* 1932.—(*con.*).

County and River Division.	Station.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Year.	Total Rainfall.
IRELAND —(*con*).															in.
Co. Mayo ...4	Mallaranny.....	23 23	1 1	17 15	26 25	17 15	11 11	23 21	19 16	22 18	25 20	16 15	22 21	222 201	58·90
Co. Sligo ...2	Collooney (Markree Obsy.)....	21 18	7 2	16 12	27 22	19 14	10 6	27 20	20 11	22 19	28 22	18 13	23 20	238 179	45·87
Co. Cavan ..1	Belturbet (Cloverhill)	21 15	2 0	15 10	23 22	17 12	5 3	22 17	19 11	19 13	26 18	15 12	22 18	206 151	31·43
Co. Armagh.5	Armagh Observatory.....	18 17	5 0	13 8	22 14	17 12	6 4	24 21	16 10	19 16	23 14	15 11	18 17	196 144	31·48
Co. Down...2	Seaforde	17 14	6 1	17 11	24 21	20 17	5 5	27 25	18 16	18 16	23 20	16 13	25 19	216 178	38·29
Co. Antrim .5	Ballymena (Harryville)	22 19	6 4	19 15	23 21	18 15	7 6	25 22	18 13	20 18	27 25	18 14	23 20	226 192	40·17
Co. Tyrone..3	Omagh (Edenfel).....	25 17	7 2	17 14	27 21	23 13	8 5	25 23	18 12	23 15	28 19	17 14	23 20	241 175	40·61
Co. Donegal.3	Milford (The Manse)	25 20	7 6	21 13	24 22	17 14	8 7	23 20	13 9	23 18	28 24	18 16	22 20	229 189	40·63
Ireland	**(Mean of 23 Stations).....**	**22 17**	**5 2**	**15 12**	**23 19**	**20 16**	**7 5**	**24 18**	**16 11**	**20 15**	**24 18**	**16 13**	**22 19**	**214 165**	**39·23**
British Isles..	**(Mean of 100 Stations).....**	**19 15**	**7 3**	**15 11**	**22 18**	**21 15**	**7 5**	**20 16**	**13 9**	**20 15**	**25 20**	**17 12**	**18 13**	**204 152**	**39·99**

3. ABSOLUTE DROUGHTS, PARTIAL DROUGHTS AND DRY SPELLS IN 1932.

As in the analogous case of rain-days and wet-days (Section 4), certain definitions have to be adopted in order to obtain a reliable body of statistical information on the subject of droughts. The definitions used are :—

An **absolute drought** is a period of at least 15 consecutive days, to none of which is credited ·01 inch of rain or more ;

A **partial drought** is a period of at least 29 consecutive days, the mean daily rainfall of which does not exceed ·01 inch ;

A **dry spell** is a period of at least 15 consecutive days to none of which is credited ·04 inch of rain or more.

These terms are used in *British Rainfall* only in the senses stated. More concise definitions of two of these terms would be :—An *absolute drought* is a period of at least 15 days, none of which is a rain-day ; a *dry spell* is a period of at least 15 days, none of which is a wet-day.

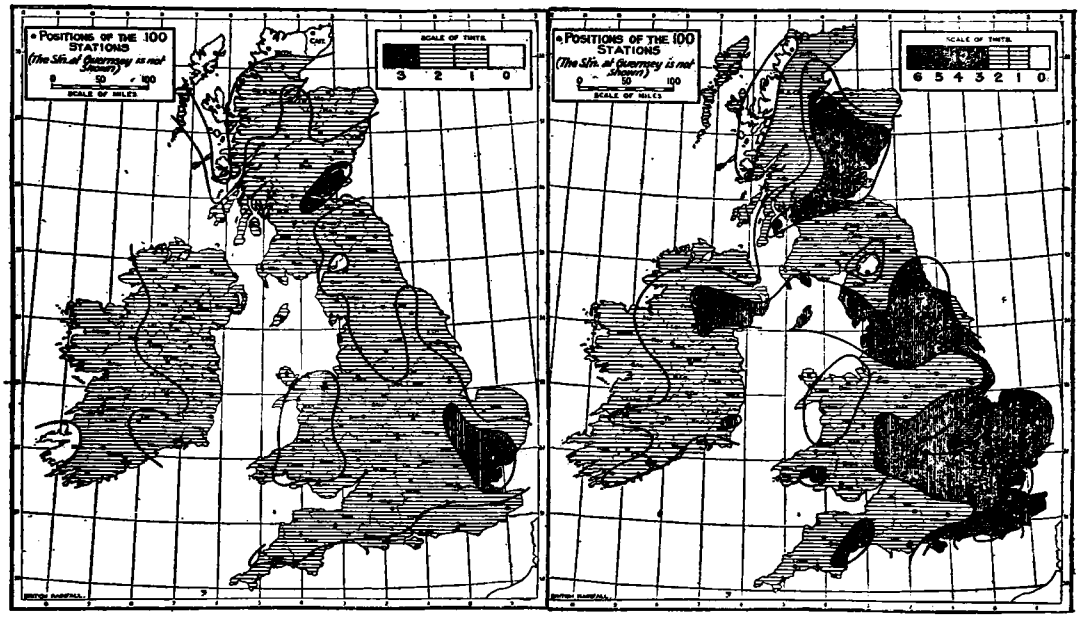
In Table VIII are given particulars of the absolute droughts, partial droughts and dry spells, which occurred at the 100 selected stations of Table V. Stations from which no droughts were reported are omitted from this table.

During 1932 the number of stations out of the 100 which failed to record either a drought or a dry spell was only four, a number much smaller than usual though in 1929 the number was only one. The year 1932 was noteworthy for the large areas over which either a drought or dry spell occurred.

In Tables VI and VII the number of droughts and dry spells recorded in 1932 are compared with those of each year from 1917 to 1931. In the case of absolute droughts and dry spells similar information is available as far back as the famous dry year 1887 (see *British Rainfall* 1929, page 20), and averages are therefore available for the 45 years 1887 to 1931.

The total number of absolute droughts recorded in 1932 was 87 or 28 more than the average 1887 to 1932. A larger number of absolute droughts has been recorded in only nine out of the preceding 45 years. The number of partial droughts was even more remarkable, being 156 or 103 more than the average. This is the largest number recorded in any year since before 1887, the next largest number being 137 in 1911. The number of dry spells was equally remarkable, being 229 or 99 in excess of the average for the period 1917 to 1932.

Of the 100 stations, 36 had no absolute drought and 7 no partial drought. There were fewer stations without an absolute drought in 1929 and 1917 and in other earlier years, but no year back to 1887



Partial Droughts, 1932. **Dry Spells, 1932.**

gave fewer stations without a partial drought, the next smallest number being 18 in 1887. There were 5 stations, or 24 less than the average, without a dry spell during 1932. As many as six dry spells were recorded at both Patcham (Brighton W.W.) and at Great Wakering, near Shoeburyness. A remarkable feature of the rainfall of 1932 was therefore the few stations which failed to record either a partial drought or a dry spell at some time during the year, the total number of partial droughts recorded at the selected stations being greater than that recorded in any year since before 1887. Some details as to the total number of partial droughts and dry spells recorded during the year are given in the diagrams.

The longest absolute drought lasted 32 days at St. Austell (Trevarna) from January 22nd to February 22nd and at Greenock (Prospect Hill) from February 1st to March 3rd. The longest partial drought persisted during the latter half of January and during February and March, a period of 71 days, at Upton in Berkshire. The longest dry spell occurred at Ventnor, Larkhill and Bath and lasted for 51 days from January 17th to March 7th. Longer absolute droughts, partial droughts and dry spells were, however, recorded as recently as 1929.

The absolute droughts occurred almost entirely either at some time during the period January 17th to March 5th or during June, the only other cases being those during August at Leicester and Balmoral, during the first half of November at Patcham (Brighton W.W.), at Whithorn (Physgill) in Wigtownshire and at Crarae Lodge, on Loch Fyne, and from December 3rd to 23rd at Cambridge. Absolute droughts occurred from January 17th to 31st at Cambridge, Gorleston and Horncastle ; at a number of stations in the south of England and along the east coast of Scotland, commencing about January 22nd and lasting until February 22nd at both St. Austell and Carmarthen ; and at numerous stations in Ireland and the south-west of Scotland during the greater part of February, extending in some cases until about March 3rd or 4th. The absolute drought during June occurred at as many as 46 out of the 100 stations and affected mainly the south-eastern half of England and Wales, of Scotland and of Ireland.

Many stations recorded a partial drought both at some time during the period January 7th to March 25th and during the period May 20th to July 2nd, while other stations recorded only one of them. A partial drought during August was also recorded in the neighbourhood of the Firths of Forth and Tay, and during December over a large area between the Wash and Thames Estuary.

As was the case with absolute droughts, dry spells occurred mainly either at some time during the period January 17th to March 5th or during June. Dry spells also occurred from March 9th to 24th at Holne, near Ashburton ; during the first half of July at Great Wakering, near Shoeburyness ; during August along the south-east coast of England, over a large area stretching from Upton in Berkshire to Sunderland and a large part of the east of Scotland from Balmoral to Linlithgow ; during the first three weeks of November at certain stations in the south-east of England but more strikingly in the north of Ireland, the south-west of Scotland and north-west of England ; and during December in the south-east of England.

Table VI.– *Droughts at* 100 *Stations,* 1917–1932.

Year.	ABSOLUTE DROUGHTS.*				PARTIAL DROUGHTS.†			
	No. of Droughts at 100 Stations.	Mean Duration.	Longest.	Stations without one.	No. of Droughts at 100 Stations.	Mean Duration.	Longest.	Stations without one.
		Days.	Days.			Days.	Days.	
1917	109	19	28	23	64	33	61	46
1918	20	16	18	83	14	34	47	87
1919	33	18	31	68	44	38	50	63
1920	18	17	22	84	22	37	54	79
1921	86	19	38	47	109	42	89	30
1922	63	17	23	46	44	36	51	66
1923	11	17	24	89	20	38	54	80
1924	50	16	22	55	25	36	57	81
1925	74	23	33	37	76	38	60	29
1926	20	17	24	83	43	36	57	64
1927	11	17	19	90	19	32	43	83
1928	50	17	22	57	41	33	43	70
1929	110	20	37	14	99	47	85	35
1930	16	17	20	86	29	31	42	72
1931	16	18	21	85	28	34	46	82
1932	87	19	32	36	156	40	71	7
Average 1887–1932	59	18	26	54	53	36	56	59
1932 diff. from Average.	+28	+1	+6	−18	+103	+4	+15	−52

* 15 days without a "rain day." † 29 days averaging not more than ·01 in.

Table VII.—*Dry Spells* at* 100 *Stations,* 1917–1932.

Year.	Number at 100 Stations.	Mean Duration.	Longest Spell.	Number of Stations with			
				None.	1 or 2.	3 or 4.	5 or more.
		Days.	Days.				
1917	193	20	31	5	70	25	0
1918	118	17	26	36	47	17	0
1919	98	19	38	35	62	3	0
1920	56	18	31	55	44	1	0
1921	201	21	58	21	43	29	7
1922	162	18	30	13	65	22	0
1923	65	18	29	54	43	3	0
1924	120	17	29	32	56	12	0
1925	164	22	43	14	65	21	0
1926	98	19	40	30	65	5	0
1927	91	17	31	43	49	8	0
1928	115	19	31	25	68	7	0
1929	215	22	53	1	65	31	3
1930	76	18	22	45	51	4	0
1931	84	19	26	53	35	12	0
1932	229	23	51	5	53	38	4
Average 1917–1932	130	19	36	29	55	15	1

*15 days without a "wet day."

TABLE VIII.—*Droughts and Dry Spells in* 1932.

County and River Division.	Station.	Absolute Droughts.			Partial Droughts.				Dry Spells.			
		Began.	Ended.	Lasted.	Began.	Ended.	Lasted.	Rain.	Began.	Ended.	Lasted.	Rain.
ENGLAND AND WALES				days			days	in.			days	in.
London 2	St. Pancras (Camden Square) .	Jan. 22	Feb. 9	19	Jan. 17	Mar. 21	65	·51	Jan. 17	Feb. 9	24	·02
		June 5	June 28	24	May 31	June 29	30	·17	June 5	June 29	25	·02
		..	..	..	..	..	..	..	Dec. 3	Dec. 20	18	·03
Kent 2	Lympne Aerodrome	..	..	..	Jan. 17	Mar. 6	50	·49	Jan. 16	Feb. 8	24	·15
		..	..	..	..	..	..	..	June 12	June 29	18	·02
		..	..	..	..	..	..	..	Nov. 2	Nov. 17	16	·02
		..	..	..	..	..	..	..	Dec. 8	Dec. 22	15	·08
Sussex 3	Patcham (Brighton W.W.)....	..	..	..	Jan. 19	Mar. 21	63	·60	Jan. 23	Feb. 8	17	·01
		..	..	..	..	..	..	..	Feb. 10	Mar. 6	26	·09
		..	..	..	..	..	..	..	June 5	June 26	22	·03
		..	..	..	..	..	..	..	Aug. 3	Aug. 21	19	·07
		Nov. 3	Nov. 17	15	..	..	..	..	Nov. 2	Nov. 17	16	·03
		..	..	..	..	..	..	..	Dec. 3	Dec. 20	18	·01
Hampshire .1	Ventnor (Royal Nat. Hospital)	..	..	..	Jan. 17	Mar. 21	65	·54	Jan. 17	Mar. 7	51	·20
		June 13	June 28	16	..	..	..	..	June 11	June 28	18	·01
		..	..	..	..	..	..	..	Aug. 3	Aug. 19	17	·02
		..	..	..	..	..	..	..	Dec. 3	Dec. 20	18	·11
„ ...7	Selborne (The Wakes)	..	..	..	Jan. 17	Mar. 7	51	·47	Jan. 19	Feb. 9	22	·08
		..	..	..	..	..	..	..	June 11	June 26	16	·03
Berkshire ...5	Upton (Manor House)	Jan. 23	Feb. 8	17	Jan. 15	Mar. 25	71	·64	Jan. 17	Mar. 6	50	·13
		..	..	..	May 31	June 29	30	·24	..	..	..	..
		..	..	..	..	..	..	..	Aug. 3	Aug. 19	17	·01
		..	..	..	..	..	..	..	Dec. 3	Dec. 22	20	·10
Northants ..4	Wellingborough (Swanspool) .	..	..	..	Jan. 15	Mar. 5	51	·50	Jan. 17	Feb. 9	24	·14
		..	..	..	..	..	..	..	Feb. 11	Mar. 5	24	·12
		..	..	..	May 30	June 27	29	·24	June 12	June 27	16	·02
		..	..	..	..	..	..	..	Nov. 5	Nov. 19	15	·10
		..	..	..	..	..	..	..	Dec. 3	Dec. 20	18	·05
„ 4	Eye (Northolm)	..	..	..	Jan. 17	Mar. 21	65	·59	Jan. 17	Jan. 31	15	·02
		..	..	..	..	..	..	..	Feb. 11	Mar. 6	25	·11
		June 12	June 27	16	May 31	June 29	30	·28	June 12	June 29	18	·03
		..	..	..	..	..	..	..	Nov. 5	Nov. 19	15	·12
		..	..	..	Dec. 1	Dec. 29	29	·26	Dec. 4	Dec. 29	26	·09

TABLE VIII.—*Droughts and Dry Spells in* 1932—(*con.*).

County and River Division.	Station.	Absolute Droughts.			Partial Droughts.				Dry Spells.			
		Began.	Ended.	Lasted.	Began.	Ended.	Lasted.	Rain.	Began.	Ended.	Lasted.	Rain.
				days			days	in.			days	in.
Cambridge ..2	Cambridge (Botanic Gardens) .	Jan. 17	Jan. 31	15	Jan. 17	Mar. 21	65	·56	Jan. 17	Feb. 22	37	·10
		June 2	June 28	27	May 29	June 29	32	·13	May 30	June 29	31	·08
		Dec. 3	Dec. 23	21	Nov. 28	Dec. 29	32	·30	Dec. 3	Dec. 29	27	·02
Essex.....3	Great Wakering	..	..	..	4. xii. 31	Jan. 4	32	·28	..	..	..	..
		Jan. 23	Feb. 8	17	Jan. 12	Mar. 21	70	·69	Jan. 15	Feb. 10	27	·05
		..	..	..	..	..	..	..	June 6	June 21	16	·01
		..	..	..	..	..	..	..	July 3	July 17	15	·04
		..	..	..	..	..	..	..	Aug. 3	Aug. 20	18	·02
		..	..	..	..	..	..	..	Oct. 31	Nov. 14	15	·02
		..	..	..	Nov. 23	Dec. 29	37	·35	Dec. 3	Dec. 22	20	·03
Suffolk 2	Haughley (Haughley House) .	..	..	..	Jan. 7	Mar. 5	59	·56	Feb. 2	Feb. 22	21	·06
		June 1	June 18	18	May 28	June 29	33	·19	May 29	June 26	29	·07
		..	..	..	Nov. 28	Dec. 29	32	·29	Dec. 3	Dec. 22	20	·07
Norfolk 1	Gorleston.....	Jan. 17	Jan. 31	15	..	..	..	..	Jan. 15	Jan. 31	17	·04
		..	..	..	May 28	June 30	34	·22	May 28	June 26	30	·09
		..	..	..	..	..	..	..	Dec. 3	Dec. 20	18	·06
„ 4	Sporle.....	..	..	..	..	..	..	..	Jan. 17	Jan. 31	15	·02
		..	..	..	May 29	June 27	30	·29	June 1	June 18	18	·04
		..	..	..	..	..	..	..	Dec. 8	Dec. 22	15	·02
Wiltshire....3	Larkhill (Sch. of Artillery) ...	Jan. 24	Feb. 8	16	Jan. 17	Mar. 21	65	·63	Jan. 17	Mar. 7	51	·13
		June 5	June 22	18	May 30	June 28	30	·30	June 5	June 22	18	·00
Dorsetshire .3	Poole	Jan. 24	Feb. 8	16	Jan. 13	Mar. 7	55	·47	Jan. 17	Feb. 23	38	·10
		..	..	..	..	..	..	..	Aug. 2	Aug. 19	18	·04
S. Devon....4	Holne (Church Park Cottage) .	Jan. 22	Feb. 8	18	Jan. 17	Mar. 6	50	·50	Jan. 21	Mar. 1	41	·06
		..	..	..	..	..	..	..	Mar. 9	Mar. 24	16	·01
		June 5	June 27	23	..	..	..	..	June 5	June 28	24	·01
N. Devon ...2	Barnstaple (N. Dev. Athenm.)	Feb. 17	Mar. 4	17	Jan. 17	Mar. 7	51	·43	Feb. 11	Mar. 4	23	·03
		June 1	June 26	26	May 29	June 28	31	·24	May 30	June 28	30	·08
„ ...3	Okehampton (Uplands)	..	..	..	Jan. 17	Mar. 7	51	·31	Jan. 17	Mar. 2	46	·09
		..	..	..	May 30	June 28	30	·23	June 4	June 28	25	·02
Cornwall ...2	St. Austell (Trevarna).....	Jan. 22	Feb. 22	32	Jan. 15	Mar. 7	53	·51	Jan. 22	Feb. 22	32	·00
		June 5	June 28	24	..	..	..	..	June 5	June 28	24	·00

TABLE VIII.—*Droughts and Dry Spells in* 1932—(*con.*).

County and River Division.	Station.	Absolute Droughts.			Partial Droughts.				Dry Spells.			
		Began.	Ended.	Lasted.	Began.	Ended.	Lasted.	Rain.	Began.	Ended.	Lasted.	Rain.
				days			days	in.			days	in.
Somerset ...1	Bath (Henrietta Park)	Jan. 22	Feb. 8	18	Jan. 17	Mar. 20	64	·51	Jan. 17	Mar. 7	51	·09
		Feb. 10	Feb. 24	15	..	..	..	..	..	..	..	..
		June 11	June 27	17	May 30	June 28	30	·16	June 11	June 27	17	·00
„ 3	Angersleigh (Leigh Court)	..	..	..	Jan. 15	Mar. 7	53	·48	Jan. 17	Feb. 8	23	·08
		..	..	..	..	..	..	..	Feb. 10	Mar. 7	27	·09
		June 11	June 28	18	May 30	June 28	30	·28	June 5	June 28	24	·02
Herefordshire1	Ross (Birchlea).....	..	..	..	Jan. 17	Mar. 20	64	·62	Jan. 25	Feb. 9	16	·03
		..	..	..	..	..	..	..	Feb. 11	Mar. 4	23	·07
		June 12	June 27	16	May 30	June 28	30	·21	June 11	June 27	17	·01
Shropshire ..3	Bishops Castle (Castle Street) .	..	..	..	Jan. 17	Mar. 5	49	·42	Jan. 25	Feb. 8	15	·04
		June 13	June 28	16	May 30	June 29	31	·26	June 13	June 28	16	·00
„ 4	Shifnal (Hatton Grange).....	..	..	..	Jan. 17	Mar. 20	64	·55	Jan. 25	Feb. 8	15	·05
		..	..	..	..	..	..	..	Feb. 10	Mar. 4	24	·12
		..	..	..	May 29	June 29	32	·31	June 2	June 27	26	·03
Staffordshire.5	Ashbourne (Mayfield House) ..	..	..	..	Jan. 17	Mar. 6	50	·44	Jan. 25	Feb. 8	15	·02
		..	..	..	..	..	..	..	Feb. 14	Mar. 5	21	·09
		..	..	..	May 30	June 28	30	·29	..	..	..	..
Warwickshire1	Warwick Castle Gardens.....	..	..	..	Jan. 17	Mar. 20	64	·60	Jan. 17	Feb. 8	23	·06
		..	..	..	..	..	..	..	Feb. 11	Mar. 4	23	·08
		June 2	June 21	20	May 30	June 27	29	·18	May 30	June 26	28	·04
		..	..	..	..	..	..	..	Aug. 2	Aug. 19	18	·02
Leicestershire4	Leicester (Stoughton Drive)...	..	..	..	Jan. 17	Mar. 5	49	·49	Jan. 17	Jan. 31	15	·02
		June 12	June 27	16	May 30	June 27	29	·24	June 12	June 27	16	·00
		Aug. 3	Aug. 19	17	..	..	..	..	Aug. 3	Aug. 19	17	·00
Lincolnshire 3	Horncastle.....	Jan. 17	Jan. 31	15	Jan. 7	Feb. 7	32	·28	Jan. 11	Jan. 31	21	·10
		..	..	..	May 30	June 29	31	·20	..	..	..	..
		..	..	..	..	..	..	..	Nov. 5	Nov. 19	15	·08
Nottingham-shire. 5	Worksop (Hodsock Priory)....	..	..	..	Jan. 17	Mar. 20	64	·61	Jan. 17	Feb. 8	23	·09
		..	..	..	May 29	June 28	31	·25	June 12	June 28	17	·02
Cheshire 2	Northwich (Hunts Lock)	..	..	..	Jan. 17	Mar. 6	50	·43	Jan. 25	Mar. 4	40	·15
		..	..	..	May 30	June 28	30	·30	May 29	June 24	27	·09

TABLE VIII.—*Droughts and Dry Spells in* 1932—(*con.*).

County and River Division.	Station.	Absolute Droughts.			Partial Droughts.				Dry Spells.			
		Began.	Ended.	Lasted.	Began.	Ended.	Lasted.	Rain.	Began.	Ended.	Lasted.	Rain.
				days			days	in.			days	in.
N. Lancs. ...5	Blackpool (Met. Observatory)	Feb. 12	Mar. 4	22	Jan. 22	Mar. 20	59	·59	Jan. 25	Mar. 4	40	·08
		..	..	..	May 29	June 26	29	·12	June 12	June 26	15	·03
		..	..	..	..	..	..	..	Aug. 3	Aug. 19	17	·12
Yorks, W.R..8	Meltham (Harewood Lodge)...	..	..	..	..	..	..	..	Jan. 25	Feb. 8	15	·09
		June 1	June 23	23	May 30	June 29	31	·31	May 30	June 23	25	·05
		..	..	..	..	..	..	..	Aug. 1	Aug. 18	18	·07
,, E.R. .3	Hull (Pearson Park)	..	..	..	..	..	..	..	Jan. 17	Feb. 8	23	·09
		June 12	June 26	15	May 29	June 29	32	·28	June 12	June 26	15	·00
		..	..	..	..	..	..	..	Aug. 5	Aug. 19	15	·04
,, E.R. .4	Filey Vicarage	..	..	..	..	..	..	..	Jan. 17	Feb. 4	19	·08
		..	..	..	May 29	June 29	32	·10	May 29	June 29	32	·10
,, N.R. 1	West Witton (Ivy House).....	..	..	..	..	..	..	..	Jan. 17	Feb. 8	23	·09
		..	..	..	..	..	..	..	Feb. 13	Mar. 4	21	·05
		June 13	June 27	15	May 29	June 27	30	·14	June 13	June 27	15	·00
		..	..	..	..	..	..	..	July 31	Aug. 19	20	·09
,, N.R. 2	Felixkirk (Mount St. John) ...	..	..	..	Feb. 14	Mar. 20	36	·36	Jan. 17	Feb. 7	22	·03
		..	..	..	May 28	June 26	30	·30	May 29	June 26	29	·10
		..	..	..	..	..	..	..	Aug. 1	Aug. 19	19	·02
Durham 2	Sunderland (W. Hendon Ho.) .	..	..	..	..	..	..	..	Jan. 17	Feb. 7	22	·07
		June 5	June 21	17	May 29	June 26	29	·07	May 29	June 26	29	·07
		..	..	..	..	..	..	..	Aug. 1	Aug. 19	19	·07
Northumber-land 6	Ilderton (Lilburn Tower Gdns.)	..	..	..	..	..	..	..	Jan. 17	Feb. 7	22	·05
		..	..	..	May 29	June 26	29	·25	June 12	June 26	15	·02
Westmorland 2	Grasmere (The Wray)	..	..	..	Jan. 25	Mar. 4	40	·31	Jan. 25	Feb. 22	29	·11
		..	..	..	May 29	June 26	29	·24	May 30	June 24	26	·06
		..	..	..	..	..	..	..	Nov. 4	Nov. 19	16	·03
Glamorgan ..6	Treherbert (Tyn-y-waun)	..	..	..	Jan. 19	Mar. 5	47	·45	Jan. 23	Feb. 8	17	·03
		May 30	June 24	26	May 30	June 28	30	·24	May 30	June 24	26	·00
Carmarthen .2	Carmarthen (The Friary).....	Jan. 25	Feb. 22	29	Jan. 19	Mar. 5	47	·31	Jan. 25	Mar. 4	40	·02
		June 12	June 26	15	..	..	..	..	June 12	June 28	17	·03
		..	..	..	..	..	..	..	Aug. 1	Aug. 19	19	·11

TABLE VIII.—*Droughts and Dry Spells in* 1932—(*con.*).

County and River Division.	Station.	Absolute Droughts.			Partial Droughts.				Dry Spells.			
		Began.	Ended.	Lasted.	Began.	Ended.	Lasted.	Rain.	Began.	Ended.	Lasted.	Rain.
				days			days	in.			days	in.
Pembroke ..4	Haverfordwest (Portfield)	..	..	..	Jan. 25	Mar. 25	61	·57	Jan. 25	Feb. 22	29	·05
		June 13	June 28	16	May 28	June 28	32	·30	June 13	June 28	16	·00
Cardigan ...3	Lampeter (Falcondale)	..	..	..	Jan. 17	Mar. 6	50	·31	Jan. 17	Feb. 22	37	·14
		..	..	..	..	..	..	..	June 12	June 28	17	·06
Denbigh 2	Denbigh (Garn)	..	..	..	Jan. 17	Mar. 6	50	·46	Jan. 30	Mar. 4	35	·14
Merioneth ..4	Dolgelley (Bontddu)	..	..	..	Jan. 17	Mar. 5	49	·44	Jan. 25	Feb. 22	29	·06
Anglesey	Llanerchymedd (Ll'diarth Es.)	..	..	..	Jan. 22	Mar. 4	43	·39	Feb. 4	Mar. 3	29	·05
		..	..	..	May 29	June 26	29	·19	May 31	June 26	27	·07
ISLE OF MAN												
Isle of Man ..	Douglas (Borough Cemetery)..	Feb. 10	Mar. 4	24	Jan. 22	Mar. 6	45	·35	Feb. 10	Mar. 6	26	·03
		June 6	June 24	19	May 29	June 26	29	·14	May 29	June 24	27	·06
CHANNEL ISLANDS		..	..	..	..	..	..	..	Nov. 4	Nov. 19	16	·02
Guernsey	St. Peter Port (Grange Road) .	..	..	..	..	..	..	..	Jan. 22	Feb. 7	17	·05
		..	..	..	July 31	Aug. 28	29	·29	Aug. 5	Aug. 19	15	·09
SCOTLAND												
Wigtown ...3	Whithorn (Physgill).....	Feb. 10	Mar. 4	24	Jan. 17	Mar. 5	49	·29	Jan. 25	Mar. 4	40	·07
		June 6	June 23	18	May 29	June 27	30	·30	May 29	June 24	27	·10
		Nov. 4	Nov. 18	15	..	..	..	..	Nov. 3	Nov. 19	17	·04
Dumfries....3	Dumfries (Crichton Inst.).....	Feb. 18	Mar. 4	16	Jan. 21	Mar. 4	44	·37	Jan. 25	Mar. 4	40	·07
		May 30	June 24	26	May 29	June 26	29	·09	May 30	June 26	28	·02
Peebles 1	Edin. W.W. (Victoria Lodge) .	..	..	..	..	..	..	..	Feb. 12	Mar. 3	21	·08
		June 8	June 23	16	May 29	June 26	29	·25	May 30	June 23	25	·03
Berwick 4	Duns Castle	..	..	..	..	..	..	..	Jan. 17	Feb. 7	22	·06
		June 12	June 26	15	May 29	June 26	29	·05	May 29	June 26	29	·05
W. Lothian .2	Linlithgow Academy.....	Feb. 11	Feb. 25	15	Jan. 20	Mar. 4	45	·38	Jan. 22	Mar. 3	42	·11
		June 10	June 25	16	May 28	June 26	30	·30	May 30	June 26	28	·07
		..	..	..	July 29	Aug. 30	33	·25	Aug. 12	Aug. 26	15	·01
Lanarkshire .5	Strathaven (Dungavel)	Feb 11	Mar. 3	22	Feb. 1	Mar. 18	47	·41	Feb. 1	Mar. 4	33	·04
		June 8	June 23	16	May 27	June 24	29	·29	June 8	June 23	16	·00

TABLE VIII.—*Droughts and Dry Spells in 1932—(con.).*

County and River Division.	Station.	Absolute Droughts.			Partial Droughts.				Dry Spells.			
		Began.	Ended.	Lasted.	Began.	Ended.	Lasted.	Rain.	Began.	Ended.	Lasted.	Rain.
				days			days	in.			days	in.
Ayrshire **6**	Maybole (Culzean Castle)	Feb. 3	Mar. 4	31	Jan. 20	Mar. 4	45	·42	Jan. 30	Mar. 4	35	·06
		June 8	June 23	16	May 26	June 25	31	·28	May 29	June 24	27	·05
Renfrew **3**	Greenock (Prospect Hill)	Feb. 1	Mar. 3	32	Jan. 22	Mar. 4	43	·30	Feb. 1	Mar. 3	32	·00
		June 3	June 23	21	May 22	June 25	35	·27	May 28	June 25	29	·11
		..	..	..	..	..	..	..	Nov. 4	Nov. 18	15	·04
Buteshire ...**3**	Dougarie Lodge	Feb. 4	Feb. 21	18	Jan. 20	Mar. 4	45	·33	Feb. 1	Mar. 4	33	·07
		..	..	..	May 20	June 24	36	·35	May 29	June 23	26	·08
		..	..	..	..	..	..	..	Nov. 4	Nov. 18	15	·03
Argyllshire .**11**	Crarae Lodge	..	..	..	Jan. 25	Mar. 3	39	·39	Feb. 10	Mar. 3	23	·07
		..	..	..	May 22	June 23	33	·28	..	..	..	..
		Nov. 4	Nov. 18	15	..	..	..	..	Nov. 4	Nov. 18	15	·00
,, .**14**	Islay (Ardbeg)	..	..	..	Jan. 22	Mar. 4	43	·39	Feb. 3	Mar. 3	30	·04
		..	..	..	May 21	June 23	34	·31	..	..	..	..
,, .**14**	Tiree (Cornaigmore Sch.)	..	..	..	Jan. 29	Mar. 3	35	·29	Feb. 4	Mar. 3	29	·13
		..	..	..	May 20	June 24	36	·32	..	..	..	..
Fifeshire **3**	Leuchars (Training Base)	Jan. 22	Feb. 8	18	Jan. 21	Mar. 18	58	·56	Jan. 21	Mar. 4	44	·14
		June 5	June 26	22	May 27	June 26	31	·15	May 29	June 26	29	·01
		..	..	..	Aug. 1	Aug. 29	29	·26	Aug. 7	Aug. 29	23	·13
Perthshire ..**11**	Aberfeldy (Dall Avon)	..	..	..	Jan. 20	Mar. 4	45	·24	Jan. 20	Feb. 8	20	·08
		..	..	..	..	..	..	..	Feb. 10	Mar. 4	24	·12
		June 10	June 25	16	May 27	June 26	31	·21	May 30	June 25	27	·01
		..	..	..	..	..	..	..	Aug. 14	Aug. 29	16	·08
Kincardine .**2**	Stonehaven (Mains of Cowie) .	Jan. 24	Feb. 11	19	Jan. 16	Mar. 5	50	·43	Jan. 22	Feb. 11	21	·03
		..	..	..	..	..	..	..	Feb. 13	Mar. 5	22	·05
		June 5	June 26	22	May 29	June 29	32	·22	May 30	June 26	28	·02
Aberdeen ...**1**	Balmoral (Castle Gardens) ...	..	..	..	Jan. 22	Feb. 21	31	·31	Jan. 22	Feb. 7	17	·06
		..	..	..	..	..	..	..	June 5	June 25	21	·04
		Aug. 14	Aug. 28	15	..	..	..	..	Aug. 12	Aug. 28	17	·04
,, ...**4**	Peterhead (Forehill Works) ...	..	..	..	May 27	June 25	30	·27	June 5	June 24	20	·06
Morayshire .**2**	Gordon Castle.....	June 8	June 25	18	May 26	July 2	38	·38	June 8	June 25	18	·00

TABLE VIII.—*Droughts and Dry Spells in* 1932—(*con.*).

County and River Division.	Station.	Absolute Droughts.			Partial Droughts.				Dry Spells.			
		Began.	Ended.	Lasted.	Began.	Ended.	Lasted.	Rain.	Began.	Ended.	Lasted.	Rain.
				days			days	in.			days	in.
Inverness ...3	Cluny Castle	..	..	..	Feb. 1	Mar. 3	32	·27	Feb. 1	Feb. 20	20	·18
		..	..	..	May 27	June 29	34	·32	June 4	June 24	21	·04
		..	..	..	..	..	..	..	Nov. 4	Nov. 18	15	·07
,, ...16	Fort William (The Factory)...	..	..	..	Feb. 1	Mar. 3	32	·17	Feb. 1	Feb. 21	21	·12
		..	..	..	May 27	June 24	29	·23	..	..	..	..
Ross and Cromarty 3	Fortrose.....	..	..	..	Feb. 3	Mar. 4	31	·28	Feb. 12	Mar. 4	22	·06
		..	..	..	May 26	July 2	38	·27	May 26	June 28	34	·12
		..	..	..	..	..	..	..	Nov. 5	Nov. 21	17	·08
,, ,, 8	Poolewe (Inverewe Gdns.)	..	..	..	Feb. 3	Mar. 4	31	·27	..	..	..	..
,, ,, 10	Stornoway	..	..	..	..	..	..	..	May 26	June 10	16	·07
Sutherland ..1	Lairg	June 8	June 24	17	May 25	July 1	38	·38	June 8	June 25	18	·02
		..	..	..	..	..	..	..	Nov. 4	Nov. 19	16	·04
Caithness ...3	Thurso (Buckies)	..	..	..	..	..	..	..	Nov. 5	Nov. 19	15	·03
IRELAND												
Co. Cork 6	Dunmanway (The Rectory) ..	Feb. 11	Feb. 28	18	Feb. 7	Mar. 6	29	·27	Feb. 11	Mar. 4	23	·04
		..	..	..	..	..	..	..	June 10	June 26	17	·06
,, ...7	Glanmire (Lota Lodge)	Feb. 11	Mar. 4	23	Jan. 25	Mar. 7	43	·34	Feb. 11	Mar. 6	25	·05
		June 10	June 26	17	..	..	..	..	June 10	June 28	19	·01
,, ...9	Mallow (Longueville).....	..	..	..	Jan. 24	Mar. 4	41	·41	Feb. 11	Mar. 4	23	·04
Co. Kerry ..3	Cahirciveen (Valentia Obsy.) .	Feb. 8	Feb. 22	15	..	..	..	..	Feb. 8	Mar. 4	26	·04
Co.Waterford3	Waterford (Gortmore).....	..	..	..	Jan. 25	Mar. 22	58	·57	..	..	..	..
		June 1	June 26	26	May 30	June 28	30	·26	June 1	June 28	28	·02
Co. Tipperary1	Nenagh (Castle Lough)	..	..	..	Jan. 21	Mar. 3	43	·42	Feb. 13	Mar. 3	20	·05
,, 3	Cashel (Ballinamona)	Feb. 11	Mar. 4	23	Jan. 18	Mar. 22	65	·65	Jan. 25	Mar. 4	40	·07
		..	..	..	May 31	June 28	29	·16	June 10	June 28	19	·03
Co. Limerick 2	Foynes (Coolnanes)	..	..	..	Jan. 17	Mar. 5	49	·49	Feb. 5	Mar. 4	29	·09
		June 10	June 26	17	..	..	..	..	June 10	June 26	17	·00
Co Wexford.4	Gorey (Courtown Ho.)	..	..	..	Jan. 22	Mar. 20	59	·54	Jan. 24	Feb. 11	19	·12
		..	..	..	..	..	..	..	Feb. 13	Mar. 4	21	·05
		June 1	June 26	26	May 30	June 28	30	·29	May 31	June 28	29	·08

TABLE VIII.—*Droughts and Dry Spells in* 1932—(*con.*).

County and River Division.	Station.	Absolute Droughts.			Partial Droughts.				Dry Spells.			
		Began.	Ended.	Lasted.	Began.	Ended.	Lasted.	Rain.	Began.	Ended.	Lasted.	Rain.
				days			days	in.			days	in.
Co. Leix 2	Abbey Leix (Blandsfort).....	..	..	..	Jan. 25	Mar. 3	39	·39	Feb. 12	Mar. 4	22	·06
		June 10	June 26	17	..	..	..	..	June 4	June 26	28	·01
Co. Dublin ..2	Dublin (Fitzwilliam Square) ..	..	..	..	Jan. 17	Mar. 6	50	·37	Feb. 10	Mar. 5	25	·09
		June 10	June 24	15	May 31	June 29	30	·26	May 31	June 26	27	·03
Co. Meath ..4	Kells (Headfort).....	..	..	..	Jan. 22	Mar 3	42	·42	Feb. 11	Mar. 3	22	·04
		..	..	..	May 22	June 26	36	·33	..	..	..	..
Co. West-meath 1	Mullingar (Belvedere Ho.)	Feb. 13	Mar. 5	22	Jan. 22	Mar. 7	46	·44	Feb. 4	Mar. 5	31	·03
		..	..	..	May 22	June 24	34	·29	June 10	June 24	15	·01
Co. Longford 2	Castle Forbes Gardens	Feb. 11	Mar. 3	22	Jan. 21	Mar. 4	44	·40	Feb. 4	Mar. 3	29	·02
		May 27	June 23	28	May 24	June 26	34	·32	May 27	June 24	29	·02
Co. Galway..3	Ballynahinch Castle	Feb. 8	Feb. 23	16	Jan. 24	Mar. 4	41	·36	Feb. 8	Mar. 4	26	·05
Co. Mayo ...4	Mallaranny	Feb. 4	Mar. 2	28	Jan. 22	Mar. 3	42	·33	Feb. 4	Mar. 2	28	·00
Co. Sligo ...2	Collooney (Markree Obsy.) ...	..	..	..	Jan. 22	Mar. 4	43	·33	Feb. 4	Mar. 3	29	·08
		..	..	..	..	..	..	..	Nov. 4	Nov. 18	15	·05
Co. Cavan ..1	Belturbet (Cloverhill)	Feb. 5	Feb. 21	17	Jan. 20	Mar. 4	45	·27	Jan. 25	Mar. 4	40	·08
		..	..	..	May 23	June 28	37	·22	June 10	June 28	19	·04
		..	..	..	..	..	..	..	Nov. 4	Nov. 18	15	·01
Co. Armagh .5	Armagh Observatory	..	..	..	Jan. 22	Mar. 4	43	·39	Jan. 31	Mar. 4	34	·13
		May 30	June 23	25	May 23	June 26	35	·33	May 30	June 23	25	·00
		..	..	..	..	..	..	..	Nov. 4	Nov. 20	17	·06
Co. Down ...2	Seaforde	Feb. 15	Mar. 3	18	Jan. 17	Mar. 4	48	·40	Feb. 10	Mar. 4	24	·03
		June 6	June 24	19	May 30	June 28	30	·28	June 6	June 24	19	·00
		..	..	..	..	..	..	..	Nov. 4	Nov. 19	16	·05
Co. Antrim .5	Ballymena (Harryville).....	..	..	..	Jan. 31	Mar. 4	34	·30	..	..	..	..
		May 30	June 23	25	May 20	June 23	35	·30	May 29	June 23	26	·02
Co. Tyrone .3	Omagh (Edenfel)	..	..	..	Jan. 30	Mar. 3	34	·29	Feb. 5	Feb. 21	17	·05
		..	..	..	May 23	June 25	34	·25	June 10	June 25	16	·02
		..	..	..	..	..	..	..	Nov. 4	Nov. 18	15	·02
Co. Donegal .3	Milford (The Manse)	..	..	..	Feb. 4	Mar. 3	29	·29	..	..	..	..
		..	..	..	May 21	June 23	34	·33	June 9	June 23	15	·01

4. RAIN SPELLS AND WET SPELLS IN 1932.

The definitions of the terms " rain spell " and " wet spell," as used in this section, are analogous to those of the terms " absolute drought " and " dry spell," which are used in the previous section. Thus :—

A Rain Spell is a period of at least 15 consecutive days to each of which is credited ·01 inch of rain or more.

A Wet Spell is a period of at least 15 consecutive days to each of which is credited ·04 inch of rain or more.

In other words, a *rain spell* contains at least 15 consecutive rain days, and a *wet spell* contains at least 15 consecutive wet days.

Table XI contains particulars of all rain spells* and wet spells* during 1932 which were reported from the 100 selected stations of Table V. Stations from which no rain or wet spells were reported are omitted from this table. The number of stations so omitted is 37. Tables IX and X give comparative statistics concerning the rain spells and wet spells since 1917. Similar details of rain spells are available back to 1903 and are given in *British Rainfall*, 1929, p. 30.

In 1932, the total number of rain spells at the 100 stations was 150 or 22 less than the average. While the total number is 29 more than that recorded in 1931, it is smaller than that for any other year back to 1919. The mean duration of the rain spells was 20 days, or one less than the average. The mean rain per day during the rain spells was, however, slightly more than the average.

* The precise procedure adopted in the allocation of rain spells or wet spells which cover parts of two years is set out in the footnote on p. 25, *British Rainfall*, 1926.

The longest rain spell continued for 36 days from September 30th to November 4th at Balmoral Castle and from December 21st, 1931, to January 25th at Ballynahinch Castle in Co. Galway. Rain spells occurred during 1932 at 63 stations or 8 fewer than the average. A somewhat larger part of the British Isles than usual was, therefore, immune from rain spells.

Four stations recorded five rain-spells each, *viz.* Grasmere (The Wray), Mull (Gruline), Skye (Portree) and Stornoway, while there were six at Balmoral Castle and Ballynahinch Castle.

The total number of wet spells at the 100 stations was 44 or 9 less than the average. The mean duration of the wet spells was 19 days, exactly the average number, while the mean rain per wet day was ·41 inch, slightly more than usual. Wet spells occurred at 23 stations or seven fewer than the average. Six stations recorded three wet spells, while there were four wet spells during the year at Grasmere, in the English Lake District. The longest wet spell lasted for 30 days, from August 30th to September 28th at Loch More (Achfary).

Rain spells occurred some time during the year at most stations in Ireland, Scotland and the western half of England and Wales, while a rain spell including the first fortnight of April was also recorded in parts of East Anglia and the Midlands. They occurred mainly during the first three weeks of January, the last week of March and first fortnight of April and during September, October and November. The only periods during the year free from rain spells at any of the selected stations were from about January 22nd to March 20th, the first week of May, the first three weeks of June and the third and fourth weeks of August.

Wet spells were confined mainly to stations in the northern half of Ireland, the western half of Scotland, the English Lake District, Wales and Dartmoor. Only two of the 40 selected stations in England recorded a wet spell during the year, *viz.* at Okehampton and Grasmere. Most of the stations with wet spells recorded one during the first three weeks of January, while many stations reported one during the last fortnight of November. Stations along the north-west coast of Ireland and of Scotland recorded a wet spell including the first fortnight of April. The only other wet spells worthy of comment were those recorded during the first fortnight of September in the south-western half of Scotland and the English Lake District, and that during part of October at certain stations in Scotland, Wales and the Lake District.

Table IX.—*Rain Spells* at 100 Stations,* 1917—1932.

Year.	No. of Rain Spells.	DURATION OF SPELLS				STATIONS WITH			
		Mean.		Longest					
		Days.	Mean rain per day.	Days.	Mean rain per day.	None.	1 or 2.	3 or 4.	5 or more.
1917....	152	22	·28	52	·19	30	48	17	5
1918....	186	23	·30	56	·21	21	51	19	9
1919....	143	20	·26	46	·31	29	53	14	4
1920....	165	20	·25	45	·24	32	45	12	11
1921....	184	22	·29	45	·25	31	36	25	8
1922....	170	21	·26	49	·35	30	42	23	5
1923....	222	23	·26	89	·31	17	47	21	15
1924....	168	19	·25	54	·23	33	41	18	8
1925....	176	19	·29	60	·34	27	43	23	7
1926....	194	20	·28	45	·14	21	37	38	4
1927....	206	19	·26	42	·19	21	43	26	10
1928....	202	24	·27	52	·27	28	43	21	8
1929....	157	21	·32	57	·27	19	58	15	8
1930....	174	23	·30	72	·42	32	36	29	3
1931....	121	20	·25	56	·25	49	33	12	6
1932....	150	20	·29	36	·29	37	37	20	6
Average 1903–32	172	21	·27	52	·27	29	43	20	8

* At least ·01 inch each day, 15 days or more.

Table X.—*Wet Spells* at 100 Stations,* 1917—1932.

Year.	Number of Wet Spells.	Mean Duration.		Longest Spell.		STATIONS WITH			
		Days.	Mean rain per day.	Days.	Mean rain per day.	None.	1 or 2.	3 or 4.	5 or more
			in.		in.				
1917....	55	19	·35	31	·46	67	28	3	2
1918....	49	21	·40	36	·44	70	26	4	0
1919....	49	17	·29	33	·34	66	29	5	0
1920....	47	18	·37	31	·61	75	17	8	0
1921....	59	20	·41	29	·32	69	22	9	0
1922....	65	20	·36	42	·28	64	29	7	0
1923....	62	20	·36	42	·39	73	17	8	2
1924....	30	18	·34	24	·37	79	19	2	0
1925....	55	17	·42	31	·18	67	27	6	0
1926....	60	19	·37	30	·48	62	32	6	0
1927....	39	18	·35	24	·29	74	22	4	0
1928....	87	20	·40	39	·29	62	21	17	0
1929....	59	19	·41	33	·40	59	36	4	1
1930....	71	21	·40	35	·51	61	30	9	0
1931....	20	19	·31	32	·44	87	10	3	0
1932....	44	19	·41	30	·50	77	16	7	0
Average 1917–32	53	19	·37	33	·39	70	24	6	0

* At least ·04 inch each day, 15 days or more.

Table XI.—*Rain Spells and Wet Spells in* 1932.

County and River Division.	Station.	Rain Spells.*				Wet Spells.†				Max. in a Day during Rain Spells.	
		Began.	Ended.	Lasted	Total Rain.	Began.	Ended.	Lasted	Total Rain.	Date.	Rain.
ENGLAND AND WALES				days	in.			days	in.		in.
Suffolk 2	Haughley (Haughley House) ..	Mar. 27	April 12	17	1·47	..	..	..	..	April 11	·31
Norfolk 4	Sporle	Mar. 27	April 18	23	2·67	..	..	..	..	April 8	·26
S. Devon ...4	Holne (Church Park Cottage) ..	31.xii.31	Jan. 21	22	14·57	..	..	..	..	Jan. 9	4·15
		Oct. 6	Nov. 4	30	13·72	..	..	..	..	Oct. 7	2·08
N. Devon ..2	Barnstaple (N. Dev. Athenæum)	24.xii.31	Jan. 16	24	4·41	..	..	..	..	Jan. 5	·60
		Oct. 19	Nov. 4	17	5·95	..	..	..	..	Oct. 21	·87
,, ...3	Okehampton (Uplands).....	25.xii.31	Jan. 17	24	9·96	31.xii.31	Jan. 16	17	9·24	Jan. 9	2·80
		Oct. 6	Oct. 27	22	11·42	..	..	..	..	Oct. 7	1·72
		Nov. 18	Dec. 3	16	4·74	..	..	..	..	Nov. 13	·98
Cornwall ...2	St. Austell (Trevarna)	28.xii.31	Jan. 18	22	5·72	..	..	..	..	Jan. 12	1·13
		Nov. 18	Dec. 3	16	3·16	..	..	..	..	Nov. 30	·62
Shropshire .4	Shifnal (Hatton Grange).....	April 1	April 17	17	1·90	..	..	..	..	April 4	·35
Warwickshire1	Warwick Castle Gardens	Mar. 26	April 11	17	2·33	..	..	..	..	April 6	·33
Cheshire ...2	Northwich (Hunts Lock)	Aug. 29	Sept. 13	16	2·10	..	..	..	..	Sept. 10	·48
		Oct. 10	Oct. 27	18	3·13	..	..	..	..	Oct. 21	·45
N. Lancs. ..5	Blackpool (Met. Observatory) .	Oct. 12	Nov. 4	24	4·25	..	..	..	..	Oct. 25	·80
Yorks, E.R..4	Filey Vicarage	May 14	May 28	15	3·25	..	..	..	..	May 20	1·17
Cumberland.1	Geltsdale	Nov. 20	Dec. 4	15	2·42	..	..	..	..	Nov. 22	·66
Westmorland2	Grasmere (The Wray)	31.xii.31	Jan. 22	23	17·87	31.xii.31	Jan. 18	19	17·05	Jan. 2	2·64
		July 21	Aug. 5	16	5·23	..	..	..	..	July 29	1·42
		Aug. 27	Sept. 14	19	10·41	Aug. 28	Sept. 11	15	9·91	Sept. 1	3·00
		Oct. 6	Nov. 3	29	15·65	Oct. 12	Oct. 26	15	8·44	Oct. 21	2·03
		Nov. 20	Dec. 4	15	9·15	Nov. 20	Dec. 4	15	9·15	Nov. 22	1·95
Glamorgan..6	Treherbert (Tyn-y-waun)	May 6	May 20	15	6·41	..	..	..	..	May 12	1·68
		Oct. 10	Oct. 27	18	10·76	..	..	..	..	Oct. 21	2·16
		Nov. 18	Dec. 4	17	7·19	..	..	..	..	Nov. 30	1·60
Carmarthen 2	Carmarthen (The Friary)	27.xii.31	Jan. 18	23	8·96	28.xii.31	Jan. 18	22	8·93	Jan. 12	1·92

* At least 15 days, each credited with ·01 inch or more.

† At least 15 days, each credited with ·04 inch or more.

Table XI.—*Rain Spells and Wet Spells in* 1932—(*con.*).

County and River Division.	Station.	Rain Spells.*				Wet Spells.†				Max. in a Day during Rain Spells.	
		Began.	Ended.	Lasted	Total Rain.	Began.	Ended.	Lasted	Total Rain.	Date.	Rain.
ENGLAND AND WALES —(*con.*).				days	in.			days	in.		in.
Pembroke ..4	Haverfordwest (Portfield).....	26.xii.31	Jan. 18	24	7·21	..	..	..	..	Jan. 12	1·44
		May 17	May 31	15	2·21	..	..	..	..	May 18	·55
		Oct. 19	Nov. 4	17	5·48	..	..	..	..	Oct. 21	1·28
Cardigan ...3	Lampeter (Falcondale)	23.xii.31	Jan. 17	26	9·48	..	..	..	..	Jan. 5	1·32
		Mar. 25	April 14	21	5·46	..	..	..	..	Mar. 27	·87
		Nov. 18	Dec. 4	17	5·88	Nov. 20	Dec. 4	15	5·53	Nov. 28	·76
Denbigh ...2	Denbigh (Garn)	30.xii.31	Jan. 16	18	4·00	..	..	..	..	Jan. 6	·96
		April 19	May 3	15	2·40	..	..	..	..	May 2	·60
		Oct. 10	Oct. 27	18	3·83	..	..	..	..	Oct. 21	·94
Merioneth ..4	Dolgelley (Bontddu)	23.xii.31	Jan. 16	25	11·07	23.xii.31	Jan. 10	19	9·29	Jan. 9	1·79
		Oct. 6	Oct. 27	22	9·21	Oct. 12	Oct. 27	16	6·57	Oct. 21	1·48
		Nov. 20	Dec. 4	15	5·40	..	..	..	..	Nov. 22	·97
Anglesey	Llanerchymedd (Ll'diarth Es.) .	23.xii.31	Jan. 22	31	6·12	..	..	..	..	Jan. 10	·68
ISLE OF MAN											
Isle of Man ..	Douglas (Borough Cemetery)...	Oct. 12	Nov. 4	24	6·74	..	..	..	..	Oct. 29	1·62
		Nov. 20	Dec. 4	15	3·01	..	..	..	..	Nov. 21	·54
CHANNEL ISLANDS											
Guernsey ...	St. Peter Port (Grange Road) ..	28.xii.31	Jan. 16	20	2·66	..	..	..	..	Jan. 6	·44
SCOTLAND											
Wigtown ...3	Whithorn (Physgill)	Aug. 29	Sept. 14	17	6·09	..	..	..	..	Sept. 8	2·31
		Oct. 12	Oct. 27	16	2·85	..	..	..	..	Oct. 12 } Oct. 25 }	·44

* At least 15 days, each credited with ·01 inch or more.

† At least 15 days, each credited with ·04 inch or more.

Table XI.—*Rain Spells and Wet Spells in* 1932—(*con.*).

County and River Division.	Station.	Rain Spells.*				Wet Spells.†				Max. in a Day during Rain Spells	
		Began.	Ended.	Lasted	Total Rain.	Began.	Ended.	Lasted	Total Rain.	Date.	Rain.
SCOTLAND —(*con.*).				days	in.			days	in.		in.
Dumfries ...3	Dumfries (Crichton Inst.).....	31.xii.31	Jan. 16	17	4·93	31.xii.31	Jan. 16	17	4·93	Jan. 16	·93
		Oct. 19	Nov. 2	15	3·04	..	..	..	..	Oct. 21	1·00
Peebles 1	Edin. W.W. (Victoria Lodge) ..	Aug. 28	Sept. 14	18	3·46	..	..	..	..	Sept. 10	·59
		Nov. 20	Dec. 4	15	4·25	..	..	..	..	Dec. 1	·71
W. Lothian 2	Linlithgow Academy	Oct. 20	Nov. 3	15	2·43	Oct. 20	Nov. 3	15	2·43	Oct. 26 Oct. 28	}·43
Lanarkshire 5	Strathaven (Dungavel)	Aug. 28	Sept. 14	18	7·58	Aug. 28	Sept. 12	16	6·99	Sept. 11	1·06
Ayrshire ...6	Maybole (Culzean Castle)	Oct. 15	Nov. 2	19	4·54	..	..	..	..	Oct. 29	1·09
Renfrew ...3	Greenock (Prospect Hill)	31.xii.31	Jan. 21	22	11·51	..	..	..	..	Jan. 2	1·83
		June 24	July 10	17	3·21	..	..	..	..	June 30	1·02
Buteshire ..3	Dougarie Lodge	Oct. 12	Oct. 26	15	3·84	..	..	..	..	Oct. 17	·87
		Nov. 18	Dec. 4	17	4·57	..	..	..	..	Dec. 2	·96
Argyllshire.11	Crarae Lodge	31.xii.31	Jan. 24	25	14·58	31.xii.31	Jan. 22	23	14·27	Jan. 2	2·68
		Mar. 26	April 10	16	5·09	..	..	..	..	April 5	1·16
		Aug. 29	Sept. 18	21	7·85	Aug. 29	Sept. 15	18	7·74	Sept. 1	1·66
		Nov. 19	Dec. 4	16	8·88	Nov. 19	Dec. 4	16	8·88	Nov. 22	1·29
,, 14	Islay (Ardbeg)	31.xii.31	Jan. 15	16	4·78	..	..	..	..	Jan. 2	1·09
		Mar. 29	April 13	16	3·99	..	..	..	..	April 5	·57
		Oct. 21	Nov. 4	15	3·48	Oct. 21	Nov. 4	15	3·48	Oct. 29	·82
		Nov. 18	Dec. 4	17	4·96	Nov. 19	Dec. 4	16	4·93	Nov. 21	·78
,, 14	Mull (Gruline).....	22.xii.31	Jan. 22	32	16·92	22.xii.31	Jan. 19	29	16·49	Jan. 14	1·72
		Mar. 26	April 13	19	6·78	..	..	..	..	April 13	1·35
		Aug. 29	Sept. 19	22	7·24	Aug. 29	Sept. 15	18	6·92	Aug. 31	1·08
		Oct. 12	Nov. 3	23	11·13	Oct. 12	Nov. 3	23	11·13	Oct. 29	1·27
		Nov. 18	Dec. 4	17	7·55	..	..	..	..	Nov. 26	1·17
,, 14	Tiree (Cornaigmore Sch.)	27.xii.31	Jan. 22	27	6·39	..	..	..	..	Jan. 14	·77
		Nov. 18	Dec. 4	17	3·68	..	..	..	..	Dec. 1	·60

* At least 15 days, each credited with ·01 inch or more.

† At least 15 days, each credited with ·04 inch or more.

Table XI.—*Rain Spells and Wet Spells in* 1932—(*con.*).

County and River Division.	Station.	Rain Spells.*				Wet Spells.†				Max. in a Day during Rain Spells.	
		Began.	Ended.	Lasted	Total Rain.	Began.	Ended.	Lasted	Total Rain.	Date.	Rain.
SCOTLAND —(*con.*)				days	in.			days	in.		in.
Aberdeen ..1	Balmoral (Castle Gardens)	Mar. 26	April 15	21	3·63	..	..	..	..	April 2 April 10	·45
		April 17	May 1	15	1·38	..	..	..	..	April 23	·61
		May 15	May 30	16	2·74	..	..	..	..	May 15	1·10
		July 15	Aug. 2	19	2·52	..	..	..	..	July 26	·52
		Sept. 30	Nov. 4	36	8·88	..	..	..	..	Oct. 14	1·18
		Nov. 20	Dec. 4	15	1·89	..	..	..	..	Nov. 26	·57
,, ...4	Peterhead (Forehill Works)	Mar. 27	April 14	19	3·56	..	..	..	..	Mar. 30	·55
		Sept. 30	Oct. 19	20	4·98	Oct. 5	Oct. 19	15	4·20	Oct. 13	·82
Morayshire .2	Gordon Castle.....	Oct. 21	Nov. 4	15	4·17	..	..	..	..	Nov. 3	1·40
Inverness ..3	Cluny Castle	Mar..27	April 14	19	2·16	..	..	..	..	Mar. 30	·41
		Aug. 29	Sept. 12	15	3·07	..	..	..	..	Sept. 10	·70
		Nov. 19	Dec. 4	16	4·74	Nov. 19	Dec. 4	16	4·74	Nov. 26	·81
,, ...16	Fort William (The Factory)....	31.xii.31	Jan. 25	26	15·12	31.xii.31	Jan. 24	25	15·09	Jan. 14	1·86
		June 23	July 10	18	4·04	..	..	..	..	July 3	1·27
		Aug. 29	Sept. 20	23	6·78	..	..	..	..	Sept. 1	1·30
		Nov. 18	Dec. 4	17	8·81	Nov. 19	Dec. 4	16	8·80	Nov. 29	1·58
,, ...18	Skye (Portree)	22.xii.31	Jan. 19	29	14·63	31.xii.31	Jan. 19	20	11·95	Jan. 9	1·34
		Mar. 26	April 14	20	4·84	Mar. 27	April 11	16	4·26	Mar. 30	·82
		Sept. 9	Oct. 9	31	9·22	..	..	..	..	Sept. 24	·91
		Oct. 11	Nov. 4	25	8·18	..	..	..	..	Nov. 3	1·21
		Nov. 18	Dec. 4	17	7·09	..	..	..	..	Dec. 1	1·05
Ross and Cromarty 8	Poolewe (Inverewe Gardens) ...	22.xii.31	Jan. 19	29	11·83	22.xii.31	Jan. 19	29	11·83	Jan. 15	1·30
		Sept. 10	Oct. 10	31	6·67	Sept. 23	Oct. 9	17	3·92	Sept. 14	·78
		Nov. 19	Dec. 5	17	6·03	Nov. 19	Dec. 5	17	6·03	Dec. 2	1·02
,, ,, .10	Stornoway.....	22.xii.31	Jan. 25	35	12·36	22.xii.31	Jan. 19	29	11·65	Jan. 14	1·40
		Mar. 30	April 14	16	3·47	Mar. 30	April 13	15	3·46	Mar. 30	·58
		Sept. 9	Sept. 26	18	3·43	..	..	..	..	Sept. 10	·59
		Oct. 12	Nov. 4	24	4·21	..	..	..	..	Nov. 1	·52
		Nov. 18	Dec. 4	17	4·64	Nov. 18	Dec. 4	17	4·64	Nov. 22	·70

* At least 15 days, each credited with ·01 inch or more.

† At least 15 days, each credited with ·04 inch or more.

Table XI.—*Rain Spells and Wet Spells in* 1932—(*con.*).

County and River Division.	Station.	Rain Spells.*				Wet Spells.†				Max. in a Day during Rain Spells.	
		Began.	Ended.	Lasted	Total Rain.	Began.	Ended.	Lasted	Total Rain.	Date.	Rain.
SCOTLAND —(*con.*)				days	in.			days	in.		in.
Sutherland..1	Lairg	31.xii.31	Jan. 15	16	4·90	..	..	..	..	Jan. 3	·90
,, ...5	Loch More (Achfary).....	22.xii.31	Jan. 19	29	19·79	..	..	..	..	Jan. 2	2·18
		Aug. 30	Sept. 28	30	15·07	Aug. 30	Sept. 28	30	15·07	Sept. 10	1·61
		Oct. 8	Oct. 22	15	4·65	Oct. 8	Oct. 22	15	4·65	Oct. 15	·89
		Nov. 18	Dec. 4	17	8·77	Nov. 18	Dec. 4	17	8·77	Nov. 26	1·19
Caithness ..3	Thurso (Buckies)	24.xii.31	Jan. 7	15	4·73	24.xii.31	Jan. 7	15	4·73	Jan. 2	·97
		Nov. 20	Dec. 4	15	3·02	..	..	..	..	Nov. 22	·65
IRELAND											
Co. Cork....6	Dunmanway (The Rectory) ...	31.xii.31	Jan. 24	25	8·96	..	..	..	..	Jan. 12	1·47
		Dec. 11	Dec. 26	16	8·24	..	..	..	..	Dec. 16	1·72
,, ...7	Glanmire (Lota Lodge)	Jan. 8	Jan. 25	18	4·08	..	..	..	..	Jan. 12	1·16
,, ...9	Mallow (Longueville).....	31.xii.31	Jan. 21	22	5·53	..	..	..	..	Jan. 14	·90
		Oct. 19	Nov. 3	16	2·21	..	..	..	..	Oct. 19 Oct. 21	·35
		Nov. 15	Dec. 3	19	1·63	..	..	..	..	Nov. 18	·37
Co. Kerry ..3	Cahirciveen (Valentia Obsy.) ..	Jan. 4	Jan. 24	21	6·96	..	..	..	..	Jan. 12	1·46
		Mar. 23	April 15	24	5·17	..	..	..	..	Mar. 25	·76
		Aug. 30	Sept. 14	16	1·72	..	..	..	..	Sept. 7	·51
Co.Tipperary1	Nenagh (Castle Lough)	July 20	Aug. 5	17	1·22	..	..	..	..	July 28	·39
		Aug. 31	Sept. 14	15	3·89	..	..	..	..	Sept. 2	1·49
		Oct. 19	Nov. 4	17	2·53	..	..	..	..	Oct. 21	·38
,, 3	Cashel (Ballinamona).....	Jan. 4	Jan. 21	18	3·58	..	..	..	..	Jan. 12	·65
Co. Limerick 2	Foynes (Coolnanes)	Aug. 28	Sept. 13	17	3·26	..	..	..	..	Sept. 2	1·09
		Oct. 11	Nov. 3	24	3·11	..	..	..	..	Oct. 27	·39
Co. Leix ...2	Abbey Leix (Blandsfort).....	Oct. 19	Nov. 4	17	2·56	..	..	..	..	Oct. 21	·75

* At least 15 days, each credited with ·01 inch or more.

† At least 15 days, each credited with ·04 inch or more.

Table XI.—*Rain Spells and Wet Spells in* 1932—(*con.*).

County and River Division.	Station.	Rain Spell.*				Wet Spells.†				Max. in a Day during During Spells.	
		Began.	Ended.	Lasted	Total Rain.	Began.	Ended.	Lasted	Total Rain.	Date.	Rain.
IRELAND —(*con.*)				days	in.			days	in.		in.
Co. Dublin .2	Dublin (FitzWilliam Square) ..	Oct. 19	Nov. 3	16	1·68	..	..	..	..	Oct. 21	·63
Co. Meath ..4	Kells (Headfort).....	Oct. 20	Nov. 3	15	2·05	..	..	..	..	Oct. 21	·62
Co. Galway .3	Ballynahinch Castle.....	21.xii.31	Jan. 25	36	10·31	Jan. 4	Jan. 24	21	6·17	22.xii.31	1·20
		Mar. 20	April 15	27	4·29	..	..	..	..	April 13	·54
		July 22	Aug. 13	23	7·22	..	..	..	..	Aug. 11	1·94
		Aug. 29	Sept. 14	17	3·82	..	..	..	..	Sept. 12	·62
		Oct. 12	Nov. 3	23	3·86	Oct. 17	Nov. 3	18	3·45	Oct. 17	·78
		Nov. 18	Dec. 4	17	3·09	..	..	..	..	Nov. 20 Dec. 1	·42
Co. Mayo ..4	Mallaranny	27.xii.31	Jan. 21	26	9·51	27.xii.31	Jan. 21	26	9·51	Jan. 15	1·42
		Mar. 23	April 15	24	5·58	Mar. 28	April 15	19	4·96	April 2	·96
		Nov. 19	Dec. 4	16	5·40	..	..	..	..	Nov. 21	1·13
Co. Sligo ...2	Collooney (Markree Obsy.).....	Mar. 28	April 15	19	3·36	..	..	..	..	April 10	·45
		July 18	Aug. 2	16	3·09	..	..	..	..	July 29	·90
		Nov. 18	Dec. 4	17	3·77	..	..	..	..	Dec. 1	·55
Co. Cavan ..1	Belturbet (Cloverhill)	Oct. 16	Nov. 3	19	2·44	..	..	..	..	Oct. 19	·40
Co. Down...2	Seaforde.....	July 21	Aug. 6	17	2·71	July 22	Aug. 6	16	2·68	July 29	·49
		Nov. 20	Dec. 4	15	1·70	..	..	..	..	Nov. 22	·27
		Dec. 11	Dec. 31	21	5·87	..	..	..	..	Dec. 19	1·11
Co. Antrim .5	Ballymena (Harryville).....	Nov. 18	Dec. 4	17	3·21	..	..	..	..	Nov. 21	·51
Co. Tyrone .3	Omagh (Edenfel)	27.xii.31	Jan. 10	15	3·70	..	..	..	..	Jan. 2	·71
		Mar. 20	April 15	27	3·55	..	..	..	..	April 9	·42
		May 10	May 24	15	2·10	..	..	..	..	May 12	·41
		Nov. 19	Dec. 4	16	3·27	..	..	..	..	Dec. 1	·50
Co. Donegal.3	Milford (The Manse)	27.xii.31	Jan. 16	21	4·93	27.xii.31	Jan. 10	15	3·16	Jan. 14	·80
		Mar. 28	April 14	18	4·10	Mar. 28	April 14	18	4·10	April 1	·59
		Oct. 12	Nov. 4	24	5·64	..	..	..	..	Oct. 17	·97
		Nov. 18	Dec. 5	18	4·43	Nov. 19	Dec. 4	16	4·39	Nov. 23	·54

* At least 15 days, each credited with ·01 inch or more.

† At least 15 days, each credited with ·04 in or more.

5. DURATION OF RAINFALL IN 1932.

The duration of rainfall is obtained from measurements of the records of autographic gauges. On these records the amount of rain is measured vertically and the duration of the rainfall is measured horizontally, in accordance with scales which are printed upon the charts before they are placed in position in the gauges. The pen of an autographic gauge writes a horizontal line on the record during such time as no rain is falling, and it writes a more or less sloping line whenever rain is passing into the receiver of the gauge.

The duration of rainfall discussed in this section is defined as the length of time during which rain is falling at a rate not less than 0·1 mm. per hour, *i.e.*, ·004 in. per hour. The tabulations at all the official stations are made according to this convention, which was first brought into general use in *British Rainfall*, 1920. It was adopted because during very light rainfall it was found to be almost impossible to decide upon the exact point on the record where the change from "no rain" to "rain" occurred. By taking a definite limiting slope of the trace as the criterion this difficulty is to a great extent avoided and it is found possible to obtain comparable measurements from different gauges and from different observers. The limit of 0·1 mm. (·004 in.) per hour is low enough to ensure that no fall of practical importance is excluded*.

The list of stations reporting duration of rainfall for 1932 is given in Tables XII and XIII. These tables have been arranged in this volume so as to give information of the total duration of rainfall and of the mean rate of rainfall for the same stations at one opening. Additional records are included from Birmingham (Handsworth Park) and Erdington (Spring Lane) maintained by the City Engineer at Birmingham, Catterick—an official station of the Meteorological Office—and Billingham-on-Tees, maintained by the Urban District Council. In the majority of cases the records are maintained by the local authorities and are mainly used in problems connected with the disposal of flood water.

* An analysis of the results for 1930 at Kew Observatory, Richmond, Surrey, showed that about 0·5 per cent. of the total amount fell at a rate of less than 0·1 mm. per hour and that the total duration exceeded the duration above that limit by about 15 per cent. These figures may be regarded as indicative of the order of magnitude of the effect of the arbitrary limit on the duration data for the drier districts. The results would probably be different in a district like the West Coast of Ireland, where very light drizzle is more frequent.

The records at Hellingly, Stanmore, Leafield Wireless Station and Cardington have terminated, while that at Swinton House, Berwickshire is incomplete for 1932 and that at Liverpool is omitted because the record is from a tipping bucket gauge.

The distribution of the stations in operation at the beginning of 1927 was shown by a map in *British Rainfall*, 1926, p. 36. Central Ireland and northern Scotland are still but sparsely represented, while records of duration from some of the very wet stations in central and northern Wales and the English Lake District would also be particularly valuable. A Beckley rain-gauge was lent to the North Wales Power Co. for use at the Cwm Dyli Power Station at the foot of Snowdon, near Penygwryd Hotel, where the average annual rainfall is about 110 inches, and observations are available for part of 1932. The total rainfall for 1932 was 117 inches, and the records from the gauge indicate a duration of about 1,200 hours.

Table XII sets out the duration of rainfall expressed in hours at 79 stations in the British Isles, for each month and for the whole year of 1932. In this table the durations at Kew Observatory, Eskdalemuir Observatory, Aberdeen Observatory and Valentia Observatory are expressed for monthly periods commencing both at midnight and at 7 a.m. The station with the highest aggregate duration for the year is Glenleven (Blackwater Dam) with a duration of 1,474 hours. This period is equivalent to about 61 days, or about 4 hours per day. Other stations with high aggregates were Eskdalemuir (Dumfries) with 1,197 hours and Cray Reservoir (Brecon) with 1,146 hours. The smallest aggregates for the year occurred at stations near London and in parts of the south-east of England, where rather less than 400 hours, or about one hour per day, was recorded.

The duration of rainfall reached 274 hours at Glenleven (Blackwater Dam) in January or very nearly 9 hours per day, and 200 hours at Eskdalemuir Observatory (Dumfries) in both January and December. The only months during which no station recorded as much as 100 hours of rainfall were February, June and August. In January the duration exceeded 100 hours in the south-west of England, in Wales and the west of Scotland, while less than 20 hours was recorded at Felixstowe, Cranwell and Nottingham. In February practically all stations recorded less than 20 hours, while there was no rain at all at Greenock. The duration reached 100 hours at Glenleven in both March and April. The totals for May were larger than usual, while in August the duration was less than 10 hours at many stations in the south of England. Unusually large totals were recorded in October, more than 100 hours being experienced in parts of the south-east, south-west and Midlands of England, and in Wales and Scotland. The duration of rainfall varied considerably in December,

viz. from about 15 hours in the south-east of England to more than 100 hours over much of Scotland and Ireland.

Table XIII sets out the mean monthly and annual values of rate of rainfall at each of the stations of Table XII. The values are obtained by dividing the total fall for the month or year by the duration as given in the preceding table. The mean rates for the year vary from ·074 at Glenleven (Blackwater Dam) to ·036 and ·037 in. per hour at Strood W.W., Kent and Armagh Observatory, respectively. The highest mean rates were recorded in August, a number of stations in the South and Midlands giving more than ·200 in. per hour. The largest value was ·300 in. per hour recorded at Leyton, where the total rainfall was 3·01 inches in 10 hours, as much as 1·96 inches falling in 4·7 hours on August 1st (see Section 6).

Table XII.—*Duration of Rainfall at 79 Stations during* 1932. (*Monthly and Annual values.*)

For the purposes of this table the month commences either at 7 a.m. or 9 a.m. G.M.T. on the first day of the month and ends at the same hour on the first day of the following month.

County and River Division.	Station.	Pattern of Gauge.	H't. above Sea.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
			ft.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.
London 1	Eltham (High Street).....	Hyeto	245	27	6	32	40	56	14	29	10	26	73	24	13	350
,, ...2	Kensington Palace	Hyeto	80	51	10	38	55	80	17	34	9	36	97	51	18	496
,, ...2	Fulham (Bishops Park).....	Hyeto	15	27	3	32	34	76	17	29	9	28	66	37	14	372
,, ...2	St. Pancras (Camden Square).	Hyeto	111	37	7	36	62	73	17	32	10	35	85	45	17	456
Surrey 4	Croydon Aerodrome.....	Nat. Syphon	217	65	11	42	66	84	21	31	12	38	89	48	23	530
,, ...5	Leatherhead (Dunard Lodge)	Nat. Syphon	233	67	11	45	68	86	26	31	6	36	94	43	19	532
,, ...5	Kingston (Sewage Works)....	Nat. Syphon	25	55	4	41	67	87	20	31	9	43	95	41	16	509
,, ...5	Richmond (Kew Observatory)	Beckley	20	44	7	35	51	73	17	28	10	32	84	39	16	436
† ,, ...5	,, ,, ,,	,,	20	44	7	35	52	73	11	34	10	32	84	36	18	436
Kent 1	Dover (Waterloo Crescent)...	Hyeto	22	37	20	30	46	35	22	53	7	53	96	34	22	455
,, ...1	Dover (Barton Road).....	Nat. Syphon	55	41	19	25	76	39	16	47	7	43	105	30	26	474
,, ...2	Lympne Aerodrome.....	Hyeto	346	54	21	39	79	56	23	46	8	43	108	44	23	544
,, ...4	Strood Waterworks.....	Nat. Syphon	112	47	18	35	69	71	13	40	11	36	108	50	17	515
Sussex 5	Eastbourne (Motcombe Gdns.)	N. & Z. Float	59	53	4	26	62	55	18	24	12	55	100	38	21	468
Hampshire ..4	Calshot (Seaplane Station)...	Nat. Syphon	9	63	3	29	57	73	27	37	15	42	94	43	24	507
,, ..5	Winchester (Worthy Down)..	Nat. Syphon	276	67	3	46	76	92	30	41	12	59	89	54	27	596
,, ..6	Petersfield (Stoner Hill).....	Hyeto	750	70	8	48	79	81	35	47	13	76	104	50	33	644
,, ..8	South Farnborough (R.A.E.).	Hyeto	237	64	7	46	67	83	28	36	9	58	87	55	17	557
Middlesex ...1	Twickenham Sewage Works..	Hyeto	38	33	3	27	41	80	16	27	8	26	73	31	14	379
,, ...1	Hanwell	Hyeto	36	39	1	27	38	84	13	34	9	35	88	60	16	444
,, ...1	Hayes Sewage Works.....	Hyeto	124	34	2	22	36	80	15	20	6	24	70	36	9	354
,, ...1	Greenford.....	Hyeto	61	39	2	29	39	81	18	25	6	25	75	40	14	393
,, ...1	Ickenham Sewage Works....	Hyeto	109	38	2	28	47	83	16	27	9	29	80	46	13	418
,, ...1	Wealdstone Sewage Works...	Hyeto	155	33	1	27	45	65	11	25	7	31	77	38	13	373
,, ...1	Edgware (M.C.C. Depot).....	Hyeto	179	34	3	27	95	74	18	30	9	32	82	43	17	464
,, ...2	Palmers Gn. (Broomfield Park)	Casella	138	31	6	30	59	69	11	29	8	33	85	43	17	421
Herts. 2	Barnet Sewage Works.....	Hyeto	297	32	3	27	55	63	13	31	7	31	81	36	16	395
,, ...2	Harpenden (Rothamsted)....	Nat. Syphon	420	46	7	37	67	84	13	29	10	42	78	55	14	482

† **Values are for periods ending 24h. on last day of month.**

Table XIII.—*Mean Rate of Rainfall at 79 Stations during* 1932. (*Monthly and Annual values.*)

County and River Division.	Station.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
		ins. per hr.	ins. per hr.	ins. per hr.	ins. per hr.	ins. per hr.	ins. per hr.	ins. per hr.	ins. per hr.	ins. per hr.	ins. per hr.	ins. per hr.	ins. per hr.	ins. per hr.
London.....1	Eltham (High Street).....	·058	·030	·045	·045	·063	·061	·070	·157	·071	·074	·036	·029	·061
,, ...2	Kensington Palace	·031	·023	·039	·041	·050	·042	·078	·165	·069	·055	·025	·026	·048
,, ...2	Fulham (Bishops Park).....	·051	·051	·038	·064	·054	·040	·097	·213	·064	·077	·031	·033	·062
,, ...2	St. Pancras (Camden Square).....	·044	·040	·042	·037	·052	·042	·060	·157	·072	·062	·031	·028	·051
Surrey 4	Croydon Aerodrome.....	·041	·023	·034	·035	·048	·048	·069	·091	·046	·058	·020	·025	·044
,, ...5	Leatherhead (Dunard Lodge).....	·047	·039	·041	·041	·051	·055	·076	·076	·054	·062	·031	·037	·050
,, ...5	Kingston (Sewage Works).....	·026	·031	·029	·032	·050	·041	·064	·082	·046	·050	·025	·025	·041
,, ...5	Richmond (Kew Observatory)....	·037	·026	·037	·043	·055	·051	·066	·124	·072	·059	·027	·026	·050
† ,, ...5	,, ,, ,, ...	·037	·025	·037	·043	·055	·023	·073	·124	·072	·059	·028	·025	·050
Kent.....1	Dover (Waterloo Crescent).....	·045	·031	·046	·061	·061	·045	·065	·133	·046	·089	·037	·025	·060
,, ...1	Dover (Barton Road).....	·051	·042	·065	·040	·054	·066	·080	·113	·056	·086	·049	·028	·061
,, ...2	Lympne Aerodrome.....	·043	·019	·039	·034	·047	·043	·091	·091	·050	·075	·024	·023	·050
,, ...4	Strood Waterworks.....	·035	·018	·030	·027	·036	·044	·053	·061	·036	·049	·014	·016	·036
Sussex 5	Eastbourne (Motcombe Gardens) ..	·046	·037	·058	·043	·042	·100	·170	·086	·050	·079	·039	·037	·062
Hampshire.....4	Calshot (Seaplane Station).....	·039	·019	·041	·045	·074	·052	·081	·102	·069	·069	·041	·052	·059
,, ...5	Winchester (Worthy Down).....	·050	·030	·043	·045	·057	·073	·078	·058	·065	·053	·039	·048	·054
,, ...6	Petersfield (Stoner Hill).....	·062	·045	·049	·047	·056	·077	·093	·110	·060	·070	·046	·044	·061
,, ...8	South Farnborough (R.A.E.).....	·042	·032	·033	·035	·055	·050	·058	·228	·040	·049	·021	·031	·045
Middlesex 1	Twickenham Sewage Works.....	·042	·052	·041	·051	·053	·051	·069	·128	·081	·068	·031	·028	·056
,, ...1	Hanwell	·043	·093	·043	·052	·044	·076	·065	·127	·053	·050	·021	·026	·047
,, ...1	Hayes Sewage Works.....	·055	·039	·051	·049	·053	·057	·119	·251	·073	·067	·036	·045	·062
,, ...1	Greenford	·047	·080	·040	·059	·062	·048	·085	·127	·076	·066	·039	·037	·061
,, ...1	Ickenham Sewage Works.....	·051	·036	·041	·048	·062	·058	·102	·245	·064	·061	·034	·034	·060
,, ...1	Wealdstone Sewage Works.....	·064	·061	·045	·049	·056	·066	·097	·100	·062	·058	·037	·040	·057
,, ...1	Edgware (M.C.C. Depot).....	·067	·037	·055	·027	·061	·055	·109	·115	·062	·057	·041	·039	·055
,, ...2	Palmers Green (Broomfield Park)..	·059	·032	·045	·041	·049	·068	·066	·181	·058	·062	·033	·030	·053
Herts.....2	Barnet Sewage Works.....	·063	·058	·051	·041	·058	·070	·073	·184	·070	·058	·046	·038	·058
,, ...2	Harpenden (Rothamsted).....	·047	·025	·052	·032	·048	·059	·086	·020	·041	·058	·030	·045	·050

† Values are for periods ending 24h. on last day of month.

Table XII.—*Duration of Rainfall at 79 Stations during* 1932—(*con.*).

County and River Division.	Station.	Pattern of Gauge.	H't. above Sea.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
			ft.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.
Oxon 3	Upper Heyford.....	Nat. Syphon	408	48	4	46	60	106	17	30	23	60	80	48	19	541
Essex.....1	Leyton Sewage Works.....	Hyeto	22	30	4	34	55	74	15	35	10	24	76	30	16	403
Suffolk.....2	Ipswich (Rookwood, Copdock)	Casella	164	22	13	29	60	83	10	31	10	29	93	44	12	436
,, ...3	Felixstowe Aerodrome.....	Nat. Syphon	15	16	7	27	57	71	7	35	10	26	79	40	9	384
Wilts. 3	Salisbury (Sewage Works) ..	Nat. Syphon	147	54	2	41	63	92	25	32	14	54	87	43	28	535
,, ...3	Porton (W.D. Ex. Station)...	Hyeto	363	49	2	46	66	88	25	20	7	41	81	51	21	497
,, ...3	Amesbury (Boscombe Down)	Nat. Syphon	419	65	6	48	72	98	31	37	17	64	91	61	36	626
Dorset 3	Poole.....	Hyeto	8	66	3	35	63	87	56	45	29	47	99	47	31	608
S. Devon....2	Plymouth (Freedom Park)...	Hyeto	208	103	1	40	78	94	35	50	25	67	123	52	73	741
Cornwall 2	Falmouth Observatory	Beckley	167	110	1	53	96	91	45	65	21	79	127	52	70	810
Hereford 1	Ross (County Observatory)...	Hyeto	224	55	5	36	62	96	17	26	17	57	73	35	37	516
Stafford.....3	West Bromwich.....	Hyeto	543	33	3	32	56	94	21	36	14	48	66	51	22	476
,, ...5	Ashbourne (Mayfield House)..	Casella	374	65	11	53	90	114	17	45	21	73	109	81	38	717
Warwick 4	Birmingham (Handsworth Pk.)	Hyeto	424	..	..	..	..	..	..	..	..	..	..	64	33	..
,, ...4	,, (Erdington, Spring Lane)	Hyeto	386	..	..	..	..	..	..	..	..	56	80	72	38	..
Lincoln 3	Cranwell Aerodrome.....	Nat. Syphon	242	19	19	35	62	102	17	50	22	46	62	74	21	529
Nottingham..2	Sutton Bonington (Agric. Coll.)	Hyeto	159	35	7	29	65	105	12	29	23	42	64	46	16	473
,, 5	Nottingham (Trent Lane)....	Fernley	83	19	7	25	53	113	14	38	21	41	62	62	14	469
,, 5	Worksop (Hodsock Priory)...	Halliwell	56	27	14	32	64	114	14	42	29	37	68	47	27	515
Derby 6	Burbage (Lower Burbage)....	Hyeto	925	67	13	48	95	106	21	38	30	58	109	85	50	720
Cheshire 3	Birkenhead (Bidston Obs.)...	Nat. Syphon	198	61	5	41	64	111	14	54	34	58	99	52	37	630
S. Lancs. ..3	Bolton (Queen's Park).....	Fernley	342	88	4	64	88	110	15	57	24	77	150	83	61	821
C. Lancs.....2	Leyland (Worden Hall).....	Fernley	125	58	6	53	63	104	20	60	26	77	117	66	42	692
,, ...3	Southport (Hesketh Park)....	Fernley	39	55	1	41	59	85	14	48	31	57	103	56	39	589
N. Lancs. ...4	Lancaster (Greg Observatory).	Beckley	312	80	3	42	44	81	19	61	25	76	84	50	53	618
W.R. Yorks..7	Sheffield W.W. (Rivelin).....	Hyeto	564	66	12	50	83	97	16	43	30	52	101	74	39	663
,, ..7	Rotherham (Aldwarke Sewage Works)	Hyeto	73	42	6	31	49	88	12	37	29	39	58	50	31	472

Table XIII.—*Mean Rate of Rainfall at 79 Stations during* 1932—(*con.*).

County and River Division.	Station.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
		ins per hr.	ins. per hr.	ins. per hr.	ins. per hr.	ins. per hr.	ins. per hr.	ins. per hr.	ins. per hr.	ins. per hr.	ins. per hr.	ins. per hr.	ins. per hr.	ins. per hr.
Oxon 3	Upper Heyford	·037	·023	·038	·038	·060	·053	·057	·099	·047	·045	·030	·038	·048
Essex 1	Leyton Sewage Works.....	·048	·055	·043	·040	·042	·033	·058	·300	·089	·070	·038	·030	·057
Suffolk 2	Ipswich (Rookwood, Copdock)....	·053	·032	·043	·033	·046	·050	·090	·121	·048	·052	·028	·033	·048
,, ...3	Felixstowe Aerodrome.....	·038	·059	·044	·032	·043	·072	·078	·096	·052	·054	·027	·027	·049
Wilts. 3	Salisbury (Sewage Works)	·047	·050	·047	·049	·041	·069	·074	·064	·056	·051	·035	·045	·050
,, ...3	Porton (W.D. Ex. Station).....	·050	·044	·041	·046	·046	·069	·094	·147	·080	·059	·028	·056	·054
,, ...3	Amesbury (Boscombe Down)	·035	·014	·045	·040	·044	·052	·078	·061	·057	·052	·024	·032	·045
Dorset 3	Poole	·040	·029	·050	·043	·037	·042	·073	·020	·078	·060	·045	·037	·048
S. Devon 2	Plymouth (Freedom Park)	·052	·040	·054	·045	·052	·098	·052	·077	·082	·067	·055	·050	·060
Cornwall.....2	Falmouth Observatory.....	·045	·029	·047	·034	·055	·062	·050	·035	·063	·077	·061	·063	·055
Hereford 1	Ross (County Observatory)	·073	·018	·048	·042	·055	·090	·083	·106	·059	·072	·039	·044	·060
Stafford.....3	West Bromwich.....	·072	·077	·049	·064	·065	·081	·082	·217	·053	·065	·052	·039	·067
,, ...5	Ashbourne (Mayfield House).....	·041	·024	·039	·043	·042	·050	·070	·078	·034	·046	·032	·029	·044
Warwick 4	Birmingham (Handsworth Park) ..	..	..	..	..	..	..	..	..	..	..	·033	·028	..
,, ...4	,, (Erdington, Spring Lane)	..	..	..	..	..	..	..	..	·047	·047	·027	·020	..
Lincoln.....3	Cranwell Aerodrome	·038	·031	·043	·030	·045	·024	·200	·093	·044	·050	·021	·026	·055
Nottingham.....2	Sutton Bonington (Agric. College)..	·039	·035	·051	·031	·059	·046	·103	·105	·042	·043	·032	·035	·050
,, ...5	Nottingham (Trent Lane).....	·056	·050	·051	·043	·053	·039	·123	·103	·039	·043	·025	·041	·053
,, ...5	Worksop (Hodsock Priory)	·038	·030	·033	·034	·057	·046	·075	·047	·035	·045	·023	·025	·044
Derby 6	Burbage (Lower Burbage).....	·056	·047	·046	·053	·064	·046	·114	·073	·044	·049	·041	·034	·054
Cheshire 3	Birkenhead (Bidston Observatory).	·039	·008	·042	·045	·030	·074	·065	·044	·048	·053	·040	·036	·044
S. Lancs. 3	Bolton (Queen's Park)	·059	·022	·046	·041	·043	·048	·078	·078	·069	·057	·048	·037	·053
C. Lancs. 2	Leyland (Worden Hall)	·065	·016	·049	·042	·042	·042	·076	·057	·079	·058	·045	·042	·055
,, ...3	Southport (Hesketh Park)	·069	·056	·050	·047	·043	·050	·087	·061	·071	·062	·043	·044	·057
N. Lancs.....4	Lancaster (Greg Observatory).....	·060	·017	·059	·075	·071	·085	·100	·078	·075	·071	·065	·059	·070
W.R. Yorks.....7	Sheffield W.W. (Rivelin).....	·053	·038	·052	·053	·065	·059	·120	·083	·044	·056	·042	·038	·058
,, ...7	Rotherham (Aldwarke Sew. Works)	·029	·036	·040	·057	·073	·045	·081	·067	·035	·053	·026	·026	·051

Table XII.—*Duration of Rainfall at 79 Stations during* 1932—(*con.*).

County and River Division.	Station.	Pattern of Gauge.	H't. above Sea.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
			ft.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.
W.R. Yorks. .9	Haworth (Lower Laithe Res.).	Hyeto	771	94	5	52	91	98	20	50	29	90	124	108	52	813
,, ..9	Earby (Sewage Works).....	Hyeto	426	70	1	47	94	94	16	49	27	66	79	45	39	627
,, ..9	Skipton (Town Hall).....	Hyeto	368	69	9	63	100	97	27	93	9	121	101	29	29	747
N.R. Yorks..2	Felixkirk (Mt. St. John).....	Halliwell	542	35	33	57	38	118	17	59	27	44	94	56	41	619
,, ...2	Catterick	Nat. Syphon	175	54	14	40	46	91	18	43	30	37	72	39	37	521
Durham 1	Billingham-on-Tees	Nat. Syphon	58	..	..	..	..	..	20	36	37	32	45	31	17	..
Glamorgan ..3	Swansea (Victoria Park).....	Hyeto	28	87	2	45	55	90	21	59	18	92	117	56	67	709
,, ..7	Cardiff (Penylan).....	Nat. Syphon	205	119	1	45	84	144	17	56	25	106	128	61	59	845
Brecon.....7	Cray Reservoir.....	Halliwell	1044	168	7	75	105	133	35	84	41	117	164	101	116	1146
Flint 1	Sealand Aerodrome.....	Hyeto	17	47	4	34	54	101	15	41	26	48	92	49	29	540
Anglesey	Holyhead (Salt Island).....	Hyeto	26	88	6	44	43	71	23	60	32	51	77	50	115	660
Dumfries....5	Eskdalemuir Observatory....	Beckley	794	196	11	88	92	75	28	103	49	99	142	104	205	1192
† ,, ...5	,, ,,	,,	794	203	11	88	92	75	21	110	43	101	145	100	208	1197
Midlothian ..4	Boghall (Col. of Agriculture)..	Hyeto	646	114	13	70	71	67	26	51	16	57	104	49	100	738
Ayr 3	Kilmarnock (Kay Park).....	‡	132	95	2	51	53	51	31	60	31	72	94	61	100	701
Renfrew 2	Renfrew Aerodrome.....	Hyeto	33	136	1	49	93	75	32	67	36	93	139	96	146	963
,, ...3	Greenock (Prospect Hill).....	Hyeto	200	138	0	49	92	51	29	61	43	89	116	103	147	918
Argyll 4	Glenleven (Blackwater Dam)..	Hyeto	1072	274	8	100	123	56	48	145	67	141	182	155	175	1474
Fife 3	Leuchars (Training Base)....	Nat. Syphon	30	53	2	74	55	69	31	53	10	33	121	49	100	650
Angus 1	Kirriemuir (Lintrathen).....	Nat. Syphon	700	..	..	..	97	63	28	69	22	47	122	83	160	..
Aberdeen ...2	Aberdeen (King's College)....	Beckley	48	48	18	129	96	75	20	68	21	62	144	53	55	789
† ,, ...2	,, ,, ,,	,,	48	51	19	126	97	75	13	74	22	59	146	51	56	789
Shetland	Lerwick Observatory	Hyeto	269	100	16	65	68	27	28	34	44	77	66	62	49	636
Cork.....7	Cork (University College)....	Hyeto	64	92	7	55	59	103	25	54	45	39	84	51	157	771
Kerry.....3	Valentia Observatory.....	Beckley	30	92	7	65	52	79	44	79	66	51	70	44	122	771
† ,, ...3	,, ,, ...	,,	30	92	7	65	52	80	44	80	64	52	70	43	123	772
Armagh.....5	Armagh Observatory	Beckley	209	75	4	64	99	70	27	93	57	85	81	67	124	846
Antrim 5	Aldergrove Aerodrome.....	Nat. Syphon	238	55	3	48	65	50	30	59	50	66	65	46	94	631

† Values are for periods ending 24h. on last day of month. ‡ Private construction.

Table XIII.—*Mean Rate of Rainfall at 79 Stations during 1932—(con.).*

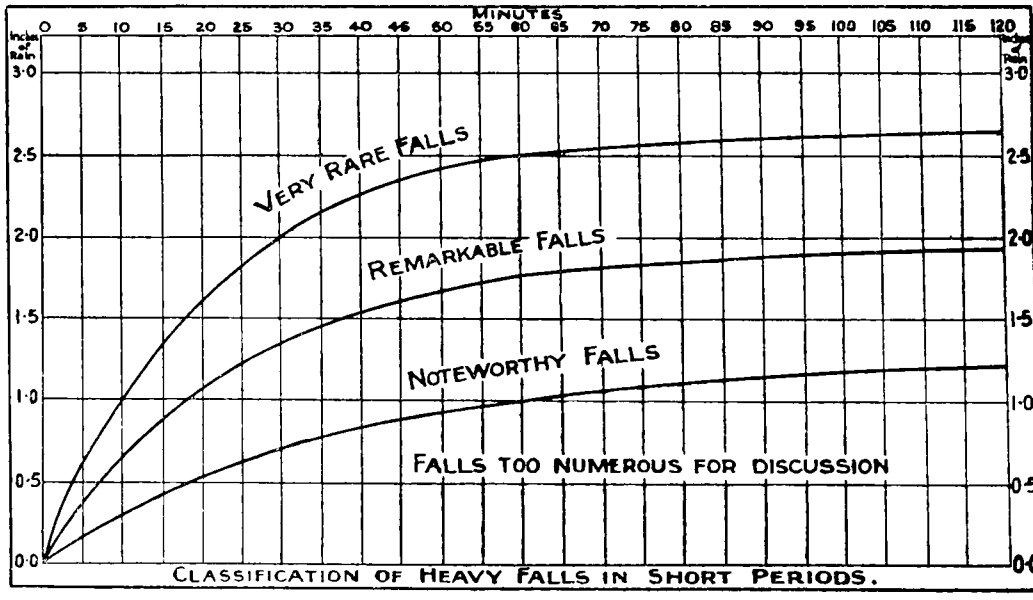
County and River Division.	Station.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
		ins. per hr.	ins. per hr.	ins. per hr.	ins. per hr.	ins. per hr.	ins. per hr.	ins. per hr.	ins. per hr.	ins. per hr.	ins. per hr.	ins. per hr.	ins. per hr.	ins. per hr.
W.R. Yorks. 9	Haworth (Lower Laithe Res.).....	·063	·065	·061	·049	·047	·075	·088	·055	·064	·064	·037	·042	·056
,, ...9	Earby (Sewage Works).....	·076	·096	·063	·035	·044	·070	·121	·047	·077	·080	·070	·049	·065
,, ...9	Skipton (Town Hall)	·053	·049	·036	·037	·031	·039	·042	·110	·030	·049	·081	·041	·042
N.R. Yorks.....2	Felixkirk (Mt. St. John).....	·045	·029	·038	·032	·040	·057	·104	·065	·054	·038	·031	·028	·046
,, ...2	Catterick	·028	·041	·037	·035	·043	·087	·072	·055	·048	·042	·030	·026	·043
Durham 1	Billingham-on-Tees	..	..	..	..	..	·067	·077	·073	·067	·054	·045	·034	..
Glamorgan.....3	Swansea (Victoria Park).....	·066	·020	·057	·061	·058	·139	·068	·056	·070	·080	·058	·059	·068
,, ...7	Cardiff (Penylan).....	·053	·020	·049	·049	·035	·090	·086	·051	·051	·055	·036	·041	·050
Brecon 7	Cray Reservoir.....	·083	·010	·059	·063	·057	·087	·062	·067	·051	·080	·060	·052	·065
Flint 1	Sealand Aerodrome.....	·047	·008	·050	·050	·038	·031	·070	·041	·040	·052	·053	·026	·046
Anglesey	Holyhead (Salt Island).....	·055	·034	·034	·041	·036	·060	·060	·048	·053	·068	·070	·038	·050
Dumfries 5	Eskdalemuir Observatory.....	·060	·017	·048	·058	·045	·067	·076	·046	·063	·064	·056	·064	·060
† ,, ...5	,, ,,	·060	·017	·048	·058	·045	·066	·076	·049	·061	·063	·055	·064	·060
Midlothian.....4	Boghall (Col. of Agriculture)	·038	·022	·043	·051	·053	·051	·052	·042	·056	·064	·048	·060	·051
Ayr 3	Kilmarnock (Kay Park).....	·073	·025	·055	·062	·056	·046	·074	·070	·065	·064	·063	·072	·065
Renfrew 2	Renfrew Aerodrome	·047	·026	·042	·039	·040	·036	·046	·030	·042	·043	·038	·055	·044
,, ...3	Greenock (Prospect Hill).....	·075	·000	·049	·063	·054	·062	·051	·076	·065	·064	·070	·083	·067
Argyll 4	Glenleven (Blackwater Dam).....	·093	·027	·044	·062	·073	·052	·062	·068	·062	·059	·088	·105	·074
Fife 3	Leuchars (Training Base)	·031	·028	·030	·042	·039	·037	·061	·038	·048	·051	·028	·030	·040
Angus.....1	Kirriemuir (Lintrathen).....	..	..	..	·032	·049	·045	·052	·073	·038	·052	·024	·037	..
Aberdeen 2	Aberdeen (King's College).....	·038	·017	·032	·031	·038	·057	·050	·099	·058	·046	·031	·026	·041
† ,, ...2	,, ,, ,, ...	·038	·017	·032	·031	·038	·054	·052	·096	·059	·046	·030	·027	·041
Shetland.....	Lerwick Observatory.....	·044	·052	·049	·056	·062	·053	·088	·078	·069	·060	·059	·058	·059
Cork 7	Cork (University College)	·057	·024	·058	·042	·041	·057	·049	·051	·060	·045	·033	·052	·049
Kerry 3	Valentia Observatory	·080	·061	·059	·071	·063	·067	·059	·044	·050	·074	·048	·067	·063
† ,, ...3	,, ,, ...	·080	·061	·059	·072	·062	·067	·059	·046	·049	·074	·048	·067	·063
Armagh 5	Armagh Observatory	·041	·028	·029	·024	·038	·031	·057	·042	·037	·035	·030	·040	·037
Antrim 5	Aldergrove Aerodrome	·054	·036	·039	·045	·043	·067	·097	·046	·051	·050	·037	·052	·053

† Values are for periods ending 24h. on last day of month.

6. HEAVY FALLS IN SHORT PERIODS IN 1932.

Heavy falls of rain in short periods are of considerable economic importance, for they are frequently of such intensity as to cause extensive flooding, often accompanied by much surface erosion and structural damage to property. Considerable damage may occur as a result of the accumulation of flood water below the area of heaviest rainfall. The amount of the damage depends on a number of other factors, such as the shape of the catchment area, the nature of the ground and vegetation, whether the water finally flows into the river or sea at high or low tide and the relative positions of the towns. In towns the floods may be aggravated by the failure of the drainage system to cope with the demands made upon it. The information given in this section supplements that in Section 7, Heavy Falls on Rainfall Days, which deals with falls of longer duration causing often more widespread flooding.

Since 1908, this section of *British Rainfall* has contained a classification of intense falls into three categories designated " worthy of notice," " remarkable," and " very rare." The classification has been effected by reference to a diagram of which a copy is reproduced. This diagram indicates by continuous curved lines the upper and lower limits of rainfall which must fall in stated times in order that the fall may be admitted into one of the three categories.



CLASSIFICATION OF HEAVY FALLS IN SHORT PERIODS.

The diagram was prepared almost exclusively from eye observations of rainfall duration and from corresponding measurements of rainfall in ordinary rain-gauges.

On pp. 45, 46 of *British Rainfall*, 1926, it was pointed out that the frequency of intense falls above the curve denoting the limit of noteworthy falls is in actual fact much greater for small intervals of time (*i.e.*, the left-hand side of the diagram) than for larger intervals (the right-hand side of the diagram). On this account, the data of Table XV have been divided into two sections, one giving results from eye observations, which are properly comparable with the diagram, and the other giving results from autographic records, which are not truly comparable with the diagram for falls of short duration.

A complete list of the recorded falls of "very rare" intensity of one hour or less is given in Table XIV, where readings of ordinary as well as of autographic gauges are included. There are two entries for 1932, *viz.*, 2·93 inches in one hour for July 11th at Cranwell Aerodrome and 1·86 inches in 20 minutes for August 20th at Malvern (Free Library).

In Table XV particulars are given of falls recorded in 1932 which reached at least the intensity "worthy of notice." Unlike Table XIV, falls of longer duration than one hour are included, the upper limit being two hours. Not more than one entry is made for the same shower for any station. The entry gives the largest amount recorded with a mean intensity "worthy of notice," "remarkable," or "very rare," as the case may be, an entry at the higher rate being in general preferred. Intense falls of less duration than five minutes are not included in the table as in previous years, since in such cases the error is likely to be relatively large and such falls are not usually of practical importance.

In accordance with practice the geographical distribution of the heavy falls of Table XV is given in the following summary. The analysis probably separates the areas of more frequent and intense falls from those relatively immune, although it cannot be expected to indicate the actual relative frequency of intense falls in each area.

Number of Exceptional Rains of Two Hours' Duration or less.

		England and Wales.								Per cent.
		S.E.	S.W.	N.E.	N.W.	Total.	Scotland.	Ireland.	British Isles.	of records received.
Average 1868-1932		16·8	7·9	4·8	2·7	32·2	2·5	1·7	36·4	1·0
1932	(*a*) ..	22	6	6	0	34	0	2	36	0·7
	(*b*) ..	8	0	6	1	15	4	2	21	0·4
	Sums ..	30	6	12	1	49	4	4	57	1·1

(*a*) Observations made without autographic rain-gauges.
(*b*) Readings of autographic gauges.

Most of the entries occur in south-east England. There are four entries for Scotland and four for Ireland.

The total number, 57, compares with 104 in 1931 and 91 in 1930. In both 1931 and 1930 there were a larger number of intense falls than occurred in any other year back to 1868. In making the comparison of the two sets of figures with the average values it should be remembered that since 1868 the number of observing stations has steadily increased, while the number of autographic rain-gauges has also increased more especially of recent years. A fairly good indication of the frequency of intense falls in 1932, in relation to the average, is probably provided by comparing the number of observations made without autographic rain-gauges with the average. This indicates that intense falls in short periods in 1932 were less frequent than usual.

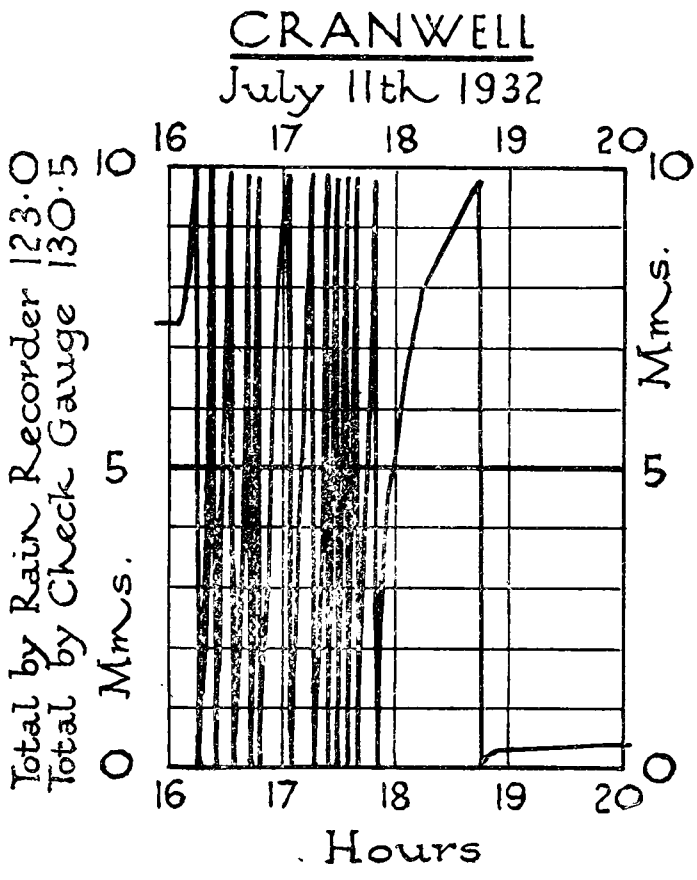
Usually about two-thirds of the total number of intense falls on record have occurred in the three months, June, July and August. In 1932 all but four entries occurred in these months and all but seven occurred in July and August.

The earliest entries in Table XV are for May 1st. At Chiseldon (Hodson House) near Swindon the observer measured 1·13 inches in just over an hour, after a thunderstorm commencing about 15h. Further heavy rain occurred during the night, giving an amount for inclusion in Section 7, Heavy Falls on Rainfall Days. Entries are also given in the tables for May 30th, June 11th, 23rd and 26th. Mr. J. R. Pochin of Barkby Hall, to the north-east of Leicester, writes :—

> " On June 11th at 16h. we stopped playing cricket for tea, and immediately a heavy thunderstorm commenced, giving 1·00 inch in 35 mins. One mile west there was no rain."

Entries are given in the tables for July 4th, 7th, 11th to 13th, 20th, 22nd, 25th to 27th and 31st. Two of the four entries for Ireland are for Aldergrove Aerodrome, near Belfast, for July 4th and 13th. On July 7th ·40 inch fell in 10 minutes at Chobham (West End), the rain being quite local and unaccompanied by thunder. Of the fourteen entries of thunderstorm rains for July 11th, the most striking were those recorded at stations in Lincolnshire and Bedfordshire. Cranwell Aerodrome reports a fall of " very rare " intensity while those at Hockliffe (Lyndhurst) and Chadlington (Langston House) rank as " remarkable." A portion of the trace of the recording rain-gauge for the late afternoon of July 11th at Cranwell Aerodrome is reproduced. From that trace the following estimates are made of the largest amounts of rain occurring in specified times :—1·25, 1·96, 2·51, 2·93, 4·18 and 4·96 inches in 15, 30, 45, 60, 90 and 120 minutes respectively. It will be seen from Table XIV that larger

amounts have been recorded at other stations in intervals up to one hour, but the falls of 4·18 inches in 90 minutes and 4·96 inches in 120 minutes are probably unprecedented. Comparable falls occurred at Campden Hill (Kensington) on June 16th, 1917, when 4·65 inches fell in less than 2½ hours; near Louth, Lincolnshire, on May 29th, 1920, when 4·10 inches fell in two hours at Hallington, but the gauge overflowed; and at Cannington, Somersetshire, on August 18th, 1924, when 8 inches of rain and hail fell in five hours. At Hockliffe (Lyndhurst) 1·50 inches fell between 13h. 30m. and 14h. At Chadlington (Langston House) 1·75 inches fell between 14h. and 15h. during a violent thunderstorm. At Stainby Rectory, near Grantham, 2·16 inches is said to have fallen "roughly in one hour," but as the measurement was not made until the next morning no entry is included in the table. As much as 2·34 inches was also measured at that station for the 13th. At West Byfleet (Starcross) ·75 inch fell between 11h. 15m. and 11h. 45m., while at Normanton (Haw Hill Park) the heavy rain occurred between 15h. 20m. and 15h. 50m. and at Raunds, in Northamptonshire, between 15h. 30m. and 16h. At Felixkirk (Mount St. John) ·75 inch fell between 9h. 30m. and 10h. and a further ·72 inch between 17h. 30m. and 18h. During the thunderstorm on July 11th at Rickmansworth ·58 inch fell between 14h. 5m. and 14h. 30m. and at one time ·23 inch in 3 mins. 20 secs.



Intense falls are reported for July 12th from Shinfield, near Reading, from Assington Hall, near Colchester, where 1·72 inches fell between 16h. and 17h. 15m., and from Ryton-on-Dunsmore, where 2·36 inches occurred in a thunderstorm between 10h. 30m. and 12h., the observer reporting the most intense fall ever experienced

during 54 years. Mr. R. H. Primavesi (Northampton) reports that on July 13th ·30 inch fell between 13h. 30m. and 14h. and 1·00 inch between 17h. and 17h. 30m., while the Works Manager of the G.E.C. Telephone Works at Coventry reports ·94 inch in 45 minutes centred about 18h. 30m. Intense falls for the 13th are also included in the tables for Aldergrove, Worthy Down, near Winchester, and Amesbury (Boscombe Down).

On July 26th at Kirdford (Hills Green), to the north-west of Billingshurst, ·35 inch fell between 11h. 5m. and 11h. 35m. and a further 1·38 inches between 15h. 45m. and 16h. 40m. During the second storm hailstones measuring $\frac{3}{4}$ inch diameter fell and ruined most of the apple and plum crops in an area about one mile wide. At Beare Green (Wigmore) in Surrey, the heavy rain occurred between 18h. 15m. and 18h. 45m. Mr. E. L. Hawke reports that at Rickmansworth on July 27th ·42 inch fell between 13h. 25m. and 13h. 30m.; between 13h. 27m. and 13h. 28m. ·10 inch fell in 49 secs. and ·05 inch in 24 secs. Three entries are given in the tables for July 31st, the heavy rain at Horncastle occurring between 13h. 15m. and 13h. 40m.

Entries are given in the tables for August 1st, 12th to 14th, 20th and 21st. The fall of 1·26 inches from 13h. 45m. to 14h. 5m. on August 1st at Leyton ranks as " remarkable." At Leytonstone 1·73 inches is reported to have fallen from 14h. 30m. to 16h. Some details of the thunderstorm rains of August 12th are given in the Meteorological Magazine 1932, pp. 186–191. The following comments are taken from Mr. E. L. Hawke's account of the intense rain at Rickmansworth :—

> " For the second time within three weeks, the Rickmansworth and Chorley Wood district of Hertfordshire was visited by a thunderstorm of unusual severity early on Friday, August 12th. The storm approached rapidly from south-south-west over an easterly surface wind, breaking, it is believed, after only a single preliminary thunderclap. Increasingly heavy rain began at 4h. 55m., and from 5h. until 5h. 30m. the fall maintained a persistence of intensity unparalleled in the writer's twenty-seven years' experience of meteorological observing in England and abroad.
>
> After about 5h. 2m. the deluge was accompanied by nearly continuous hail. The stones were spheroidal, and appeared to average half an inch in diameter, but were in some instances amalgamated into masses approximately the size of a golf ball. To save the radiation thermometers from destruction, a journey that will not readily be forgotten was made to the instrument enclosure at 5h. 5m. The assault of ice and water can only be described as terrific. At 5h. 30m. the hail ceased abruptly, and there was a progressive slackening of the rain. The measurement for the 45 minutes from 4h. 55m. to 5h. 40m. was 2·24 inches—an amount that may well have been short of the true figure by reason of the hailstones rebounding from the funnel of the gauge. Both before 5h. and after 5h. 30m. the rain was not of outstanding violence, and it is estimated that of the measured total of 2·25 inches yielded by the storm, nearly, if not quite, 2 inches must have fallen within the half-hour.

> The lower part of the garden and the adjoining country road, in common with most of Rickmansworth town, were flooded to varying depths, and a great deal of damage was done locally in this way. Throughout the morning fire engines were at work pumping water out of the ground floors of houses in the main street."

On August 12th ·62 inch fell between 6h. 32m. and 6h. 45m. at Streatham Common, 1·05 inches between 5h. 15m. and 6h. 5m. at Park Street Lane near St. Albans, ·98 inch between 5h. 58m. and 6h. 35m. at Great Barford House, 6 miles to the east-north-east of Bedford and ·20 inch between 1h. 42m. and 1h. 48m. at Kilmarnock (Kay Park). On August 13th ·78 inch was recorded between 16h. 5m. and 16h. 25m. at Tuam in Co. Galway. At Broadford (Hurdlestown) in Co. Clare the heavy rain occurred during an intense thunderstorm about 16h. Lt.-Col. W. A. Bentley reports that " every hollow in the ground was filled with water; big floods arose suddenly in all the streams; sand was washed away from the roads and a small cock of hay near-by was burnt by lightning." On August 14th 1·83 inches fell between 16h. 30m. and 18h. 20m. at Little Kimble near Princes Risborough. The entry for August 20th at Malvern (Public Library) of 1·86 inches in 20 minutes at 22h. 15m. ranks as " very rare." The heavy rain occurred during a violent thunderstorm and did considerable damage. Mr. W. Osborne Thorp reports that it was the heaviest fall in so short a space of time ever recorded there. At Gwernyfed Park near Three Cocks in Breconshire 2·25 inches fell on the 21st between 12h. 45m. and 13h. 45m. and the fall ranks as " remarkable." The observer reports even more intense rains on the Black Mountains and the most severe floods experienced near Gwernyfed Park for fifty years.

No intense fall worthy of inclusion in the tables was reported after September 18th, when ·20 inch fell in 6 minutes at Kew Observatory.

Table XIV.—*Rainfalls of Very Rare Intensity lasting for One Hour or less.*

Year.	Date.	Div.	Station.	Amount.	Duration		Rate per Hour
				in.	H.	M.	in.
1912	May 8	XV	Alexandria	·26	0	1½	10·40
1888	Mar. 24	XI	Chepstow, Shirenewton Hall	·33	0	2	9·90
1917	July 14	IV	Norwich, Ipswich Road	·47	0	2½	11·28
1893	Aug. 10	VIII	Preston, Corporation Offices	1·25?	0	5?	15·00?
1893	June 14	XI	Chepstow, Shirenewton Hall	·62	0	5	7·44
1925	May 10	II	Godalming, Charterhouse	·60	0	5	7·20
1906	Aug. 2	II	Guildford, Piccard's Rough	·89	0	8	6·68
1892	July 3	VIII	Bolton, The Park	1·00?	0	9?	6·67?
1927	Sept. 23	V	Chagford, Dartmoor S'torium	1·30	0	10	7·80
1902	May 30	III	Cambridge, Sydney Street	1·10	0	10	6·60
1878	June 23	I	St. Pancras, Camden Square	1·04	0	10	6·24
1912	July 21	VII	Wirksworth, Manor House	1·00	0	10	6·00
1918	July 16	II	Purley, Oakwood Avenue	1·10?	0	11	6·00?
1914	Aug. 14	XI	Guernsey, St. Martin's Road	1·50	0	15	6·00
1878	June 23	I	St. Pancras, Camden Square	1·43	0	15	5·72
1927	July 11	I	Balham High Road	1·50	0	18	5·00
1875	Aug. 7	II	Canterbury, Harbledown	2·12	0	20	6·36
1932	Aug. 20	VI	Malvern, Free Library	1·86	0	20	5·58
1878	June 23	I	St. Pancras, Camden Square	1·82	0	20	5·46
1897	June 24	III	Luton Pumping Station	1·65	0	20	4·95
1920	May 29	VIII	Leyland, Worden Hall	1·65	0	20	4·95
1878	June 23	I	St. Pancras, Camden Square	2·30	0	28	4·93
1880	July 22	XI	Cowbridge, Ash Hall	2·90	0	30	5·80
1915	July 4	XI	Abergavenny, The Chain	2·20	0	30	4·40
1918	July 17	I	Shad Thames Pumping Station	2·07	0	30	4·14
1895	June 27	IX	Middleton-in-the-Wolds	2·00	0	30	4·00
1902	Sept. 10	II	Surbiton, Vronvelin	2·00	0	30	4·00
1931	June 14	VI	Cannock Sewage Works	2·35	0	38	3·71
1920	May 25	IV	Hatfield, Broad Oak, Barrington	2·79	0	45	3·72
1904	July 27	II	Cooling, Broomy Farm	2·66	0	45	3·55
1909	Sept. 29	V	Ilfracombe Reservoir	2·50?	0	45	3·33?
1895	June 26	V	Marlborough	2·71	0	50	3·25
1915	June 30	IV	Mildenhall	2·63	0	50	3·16
1903	July 18	VI	Crewe, Betley Hall	2·53	0	50	3·04
1905	July 9	III	Enfield, Carisbrooke	2·44	0	50	2·93
1911	May 31	II	Epsom, Ashley Road	2·44	0	50	2·93
1901	July 29	II	Wadhurst, Lower Cousley Wood	3·25?	0	55	3·55?
1913	June 17	IV	Elvedon Hall	2·85	0	58	2·95
1901	July 12	II	Maidenhead, Lowood	3·63	1	0?	3·63?
1903	May 30	II	Beddington Corner	3·50	1	0	3·50
1911	May 26	II	Fareham, The Mount	3·00	1	0	3·00
1897	July 21	IV	Ipswich, Bishops Hill	2·95	1	0	2·95
1932	July 11	VII	Cranwell Aerodrome	2·93	1	0	2·93
1895	June 26	VI	Worcester, Diglis Lock	2·75	1	0	2·75
1909	June 1	XII	Carsphairn, Shiel	2·71	1	0?	2·71?
1873	July 28	XVII	Fettercairn	2·60	1	0	2·60
1889	June 7	II	Tonbridge, Ferndale	2·60?	1	0?	2·60?
1886	July 25	VIII	Sale, Brooklands	2·58	1	0	2·58
1899	July 22	V	Dorchester Water Works	2·56	1	0?	2·56?
1875	July 22	V	Trowbridge, Sunnyside	2·53	1	0	2·53
1875	June 29	III	Cardington	2·50	1	0	2·50
1886	July 25	IX	Wakefield, Stanley Vicarage	2·50	1	0	2·50

Table XV.—*Heavy Falls in Short Periods in* 1932.

County and River Division.	Station.	Date.	Amount.	Duration.	Rate per Hour.
	(a) EYE OBSERVATIONS		in.	min.	in.
Hertford 2	Rickmansworth (Valley Road)	July 27	·42	5	5·04*
Galway 3	Tuam Palace Gardens	Aug. 13	·78	10	4·68
Surrey 7	Chobham (West End).....	July 7	·40	10	2·40
London 1	Streatham (Arragon Gardens)	Aug. 12	·62	13	2·87
Worcester ...1	Malvern (Free Library)	Aug. 20	1·86	20	5·58‡
Essex.....3	Foulness (Court End).....	July 20	·75	20	2·25
Clare 3	Broadford (Hurdlestown)	Aug. 13	·97	25	2·33
Lincoln 3	Horncastle	July 31	·78	25	1·87
Norfolk 1	Hingham	May 30	1·05	27	2·33
Bedford.....3	Hockliffe (Lyndhurst)	July 11	1·50	30	3·00*
Surrey 5	Beare Green (Wigmore).....	July 26	1·20	30	2·40
Leicester 4	Barkby Hall	June 11	1·00	30	2·00
Northants ...4	Northampton (Mercers Row) .	July 13	1·00	30	2·00
Northants ...4	Raunds (Day School).....	July 11	·90	30	1·80
Yorks W.R. ..8	Normanton (Haw Hill Park)..	July 11	·89	30	1·78
Surrey 6	West Byfleet (Starcross)	July 11	·75	30	1·50
Huntingdon ..1	Brampton School	July 11	·74	30	1·48
Nottingham ..5	Mansfield (West Bank)	July 22	·69	30	1·38
Dorset 4	Stalbridge School	June 23	1·08	35	1·85
Bedford.....3	Great Barford House	Aug. 12	·98	37	1·59
Berkshire 4	Shinfield (Univ. College Farm)	July 12	1·34	40	2·01
Hertford 2	Rickmansworth (Valley Road)	Aug. 12	2·24	45	2·99*
Hertford 2	Park Street (Bricketwood) ...	Aug. 12	1·05	50	1·26
Sussex 2	Kirdford (Hills Green).....	July 26	1·38	55	1·51
Brecon 8	Glasbury (Gwernyfed Park) ..	Aug. 21	2·25	60	2·25*
Oxford 2	Chadlington (Langston Ho) ..	July 11	1·75	60	1·75*
Yorks N.R....4	Pickering (Hungate Hall)	July 11	1·50	60	1·50
Yorks N.R....6	Kildale Hall	July 11	1·45	60	1·45
Worcester ...1	Malvern (British Camp Res.)..	Aug. 20	1·23	60	1·23
Gloucester ...7	Great Barrington	Aug. 21	1·23	60	1·23
Wiltshire.....6	Chiseldon (Hodson House)....	May 1	1·13	60	1·13
London 1	Lewisham (Clarendon Road)..	July 11	1·06	60	1·06
Suffolk 1	Assington Hall	July 12	1·72	75	1·38
Warwick 1	Ryton-on-Dunsmore (Ryton H.)	July 12	2·36	90	1·57*
Essex.....1	Leytonstone (High Road) ...	Aug. 1	1·73	90	1·15
Buckingham..2	Little Kimble	Aug. 14	1·83	110	1·00

* "Remarkable" fall. ‡ "Very Rare" fall.

Table XV.—*Heavy Falls in Short Periods in* 1932—(*con.*).

County and River Division.	Station.	Date.	Amount.	Duration.	Rate per Hour.
	(b) AUTOGRAPHIC RECORDS		in.	min.	in.
Lincoln 3	Cranwell Aerodrome	July 31	·20	5	2·40
Lincoln 3	Cranwell Aerodrome	Aug. 1	·20	5	2·40
Hampshire ..8	South Farnborough (R.A.E.) ..	Aug. 20	·39	6	3·90
Aberdeen ...2	Aberdeen (Kings College)	June 26	·20	6	2·00
Antrim 5	Aldergrove Aerodrome	July 4	·20	6	2·00
Antrim 5	Aldergrove Aerodrome	July 13	·20	6	2·00
Hampshire ..5	Worthy Down	July 13	·20	6	2·00
Fife 3	Leuchars (Training Base)	July 31	·20	6	2·00
Ayr 3	Kilmarnock (Kay Park)	Aug. 12	·20	6	2·00
Surrey 5	Richmond (Kew Observatory)	Sept. 18	·20	6	2·00
Oxford 3	Upper Heyford	May 1	·39	8	2·93
Kent 2	Lympne Aerodrome	July 25	·39	10	2·34
Aberdeen ...2	Aberdeen (Kings College)	Aug. 12	·39	12	1·95
Hampshire ..4	Calshot (Seaplane Base)	Aug. 20	·39	12	1·95
S. Lancs. ...2	Liverpool (Monument Place) ..	July 11	·44	15	1·76
Essex.....1	Leyton (Sewage Works)	Aug. 1	1·26	20	3·78*
Yorks N.R...2	Felixkirk (Mt. St. John)	July 11	·75	30	1·50
Yorks N.R...2	Felixkirk (Mt. St. John)	July 11	·72	30	1·44
Warwick ...1	Coventry (Stoke)	July 13	·94	45	1·25
Wiltshire....3	Amesbury (Boscombe Down)..	July 13	1·00	54	1·11
Lincoln 3	Cranwell Aerodrome	July 11	2·93	60	2·93‡

* "Remarkable" fall. ‡ "Very Rare" fall.

Table XVI.—*Number of Days on which specified amounts of Rain fell in specified times during* 1932.

County.	Place.	0·2 inch.				0·4 inch.				1 inch.			
		6 min. or less.	15 min. or less.	30 min. or less.	60 min. or less.	15 min. or less.	30 min. or less.	60 min. or less.	2 hours or less.	1 hour or less.	2 hours or less.	5 hours or less.	24 hours or less.
London	Camden Square	0	2	2	10	0	2	2	3	0	0	0	0
Surrey	Croydon	1	2	3	7	0	0	1	4	0	0	1	2
,,	Kew Observatory	1	1	3	6	0	1	2	2	0	0	0	2
Kent	Lympne	1	4	7	13	1	1	1	4	0	0	2	5
Hants.	Calshot	1	3	6	14	1	3	4	4	0	1	2	5
,,	Worthy Down	1	4	5	11	0	0	2	7	0	0	1	5
,,	South Farnborough	2	5	6	10	1	2	2	4	0	0	0	2
Oxford	Upper Heyford	1	4	4	10	1	1	2	3	0	1	3	3
Suffolk	Felixstowe	0	1	2	5	0	0	0	1	0	0	0	0
Wilts.	Boscombe Down	1	2	4	10	1	1	1	4	1	1	1	2
Devon	Mount Batten	0	0	4	11	0	0	0	4	0	0	1	4
Lincoln	Cranwell	4	5	6	11	1	2	2	5	1	1	2	3
Lancashire	Southport	0	1	5	11	0	0	1	3	0	0	0	5
N.R. Yorks.	Catterick	0	3	4	7	0	0	1	4	0	0	0	1
Flint	Sealand	0	1	2	7	0	0	0	3	0	0	0	1
Anglesey	Holyhead	0	1	5	14	0	0	1	5	0	0	0	2
Dumfries	Eskdalemuir	0	1	7	30	0	1	2	13	0	0	2	21
Renfrew	Renfrew	1	1	4	10	1	1	1	3	0	0	0	6
Fife	Leuchars	1	1	2	5	1	1	1	2	0	0	0	3
Aberdeen	Aberdeen	2	3	4	8	1	1	2	2	0	0	0	1
Shetland	Lerwick	0	0	2	8	0	0	1	2	0	0	1	3
Co. Kerry	Valentia Observatory	0	0	8	16	0	0	2	7	0	0	2	6
Co. Armagh	Armagh Observatory	0	5	8	15	0	1	1	2	0	0	0	1
Co. Antrim	Aldergrove	2	2	9	12	1	1	2	5	0	1	1	3

The falls are not necessarily continuous nor are they always confined to one calendar day. Not more than one fall of each specified amount is credited to any day; if more than the specified amount fell on any day, that part of it which fell in the shortest time is used for the table.

A entry in any of the first three columns under each of the headings 0·2, 0·4 and 1 inch naturally recurs in the column or columns to the right.

In the preceding section the material has been provided both from autographic records and from eye observations at any of the 5,000 rainfall stations. Another method of dealing with the frequency of heavy falls of rain is to confine attention to the stations with autographic records and to examine the traces for all the rain which occurs at these stations. That has been done for the stations set out in Table XVI. In the tabulations on which the classification is based, the shortest interval in which ·2 inch (5 mm.) falls is entered for each day on which so much rain occurs. Similarly with falls of ·4 inch and 1 inch. Cases in which a fall of the given amount occupied parts of two days are included, but each fall counted is of less than 24 hours' duration and only one fall of the given amount is credited to each calendar day. In the classification adopted in Table XVI, the first time limit for each of the stated amounts is nearly in accordance with the specification of a noteworthy fall (*see* diagram) and corresponding entries will be found in Table XV.

7. HEAVY FALLS ON RAINFALL DAYS IN 1932.

The daily measurements of rain which are set out in this Section are (*a*) those of falls of 2·5 inches or more in the rainfall day, and (*b*) those of falls which amount to at least 7·5 per cent. of the total recorded for the year 1932. A fall of 2½ inches in a day at any station is sufficiently remarkable to be noticed, but as such heavy falls are more frequent in the normally wet areas of mountain districts than elsewhere, the criterion of 7½ per cent. was introduced to admit certain falls of less than 2½ inches in areas where the total rainfall for the year is less than 33·3 inches. In this way daily falls which are heavy in relation to the local standard are not neglected. In the case of May 21st 43 entries and in the case of July 13th 13 entries with less than 2·25 inches have, however, been omitted. This is referred to in the Chronicle. It will be seen that the majority of the falls noticed, satisfy criterion (*a*), but do not satisfy criterion (*b*). Many of the falls of May 21st did not reach 2·5 inches, although they were more than 7·5 per cent. of the annual totals. On the other hand none of the falls of January 2nd, 5th and 9th, June 30th and December 16th exceeded 7·5 per cent. of the annual totals, although they reached 2·5 inches.

The greatest amount measured in a day in 1932 was 5·33 inches, on July 11th, at Barnoldswick (Rainhall Road). It will be seen from Table XVII that larger falls have been recorded each year since 1925. The highest percentage was 17·8 per cent. at Cranwell Aerodrome, in Lincolnshire, on July 11th, the amount of the fall being 5·14 inches.

A table showing the absolute maximum daily rainfall and the absolute maximum daily percentage reported for each year from 1865 to 1921 was published in *British Rainfall*, 1921, p. 86. The portion of that table from 1913, completed by the addition of particulars for the years 1922 to 1932, is printed here. This portion contains the highest values shown in the complete table from 1865 to 1932, both as to amount and percentage; these figures are printed in heavy type.

TABLE XVII.—*Maximum Daily Fall and Maximum Percentage, 1913 to 1932.*

Year.	ABSOLUTE HIGHEST RAINFALL.				ABSOLUTE HIGHEST PERCENTAGE.				Year.
	Depth.	Per cent.	Station.	Div.	Per cent.	Depth.	Station.	Div.	
	in.					in.			
1913 ..	6·06?	**26·0?**	Doncaster P.S.	9	**26·0?**	6·06?	Doncaster P.S.	9	1913
1914 ..	6·35	4·1	Pen-y-Gwryd	11	14·8	3·35	Upminster	4	1914
1915 ..	7·06	19·7	Dalcross	18	19·7	7·06	Dalcross	18	1915
1916 ..	8·20	5·7	Kinlochquoich.....	18	13·1	3·91	Portland Bill.....	5	1916
1917 ..	**9·56**	..	Bruton	5	21·8	8·39	Aisholt	5	1917
1918 ..	4·95	9·2	Douglas	11	12·3	3·36	Woodsetts Grange....	9	1918
1919 ..	4·50	5·9	Corran	15	11·1	3·57	Ayr Cemetery.....	15	1919
1920 ..	6·81	5·4	Dungeon Ghyll.....	10	15·6	4·69	Elkington Hall	7	1920
1921 ..	6·10	5·2	,, ,, ...	10	21·3	3·15	Pulham.....	4	1921
1922 ..	5·14	5·6	Ardgour House.....	15	16·5	4·70	Doncaster (Carr Ho.).	9	1922
1923 ..	5·57	3·9	Llechwedd Quarry..	11	11·6	4·16	Rugeley (Brindley Bk.)	6	1923
1924 ..	9·40	19·5	Cannington (Brymore)	5	19·5	**9·40**	Cannington (Brymore)	5	1924
1925 ..	*4·13*	*2·8*	Snowdon (No. 9)....	9	11·4	*2·35*	Boston (Fishtoft S.)..	7	1925
1926 ..	6·05	9·4	Nantneuadd	11	10·9	4·57	Pembroke Dock.....	11	1926
1927 ..	6·00	4·6	Llechwedd Quarry .	11	*10·7*	4·00	Wolverh'ton Town H..	6	1927
1928 ..	7·77	5·3	Oakeley Quarry	11	12·9	3·26	Marton (Southcroft)..	9	1928
1929 ..	8·31	7·2	Rhondda(L.Wen Res)	11	19·1	4·01	Rumburgh Vicarage..	4	1929
1930 ..	5·70	11·0	Castleton	9	11·0	5·70	Castleton	9	1930
1931 ..	7·25	9·2	Blaenau-hydfer.....	11	18·9	6·10	Boston (Black Sluice).	7	1931
1932 ..	5·33	11·5	Barnoldswick	9	17·8	5·14	Cranwell Aerodrome	7	1932

The largest entry in each column is shown in heavy type and the smallest in italic type.

Particulars of the eight largest falls of the year 1932 are given in Table XVIII. The table shows also the year's total at each of the stations and the percentage of that total which is accounted for by the highest daily fall.

TABLE XVIII.—*The largest Daily Rainfalls in* 1932.

Date.	Div.	Station.	Depth.	Per cent. of Year.	Total for Year.
			in.	%	in.
July 11	IX	Barnoldswick (Rainhall Road) ...	5·33	11·5	46·51
Dec. 16	X	Borrowdale (The Moraine).....	5·18	4·4	118·10
July 11	VII	Cranwell Aerodrome	5·14	17·8	28·83
June 30	V	Princetown (H.M. Prison)	5·00	5·0	99·29
Jan. 5	XI	Rhondda (Lluest Wen Res.)	4·94	5·1	96·39
Dec. 16	X	Buttermere (Hassness)	4·92	4·2	118·01
Dec. 16	X	Watendlath Farm	4·75	4·7	100·99
July 11	VIII	Broadbottom (Harewood Lodge) .	4·74	11·7	40·33

The total number of heavy falls recorded during 1932 is larger than usual, but not as many as in 1931. The number of falls of 3 inches or more in 1932 for England and Wales, Scotland and Ireland, was 158, 29 and 2, compared with 250, 11 and 9 in 1931 and 48, 11 and 7, in 1930.

The number of entries of 4 inches or more during 1932 was 19 compared with 114 in 1931 and 14 in 1930.

In the tables included in the following account of the heavy falls of the year, a daily fall which is the maximum fall for the year at the station is indicated by ordinary roman type; other falls are in *italics*.

CHRONICLE.

The amounts in this section cover the 24 hours commencing at 9 a.m. G.M.T. on the day of entry.

The year was remarkable for the large number of heavy falls of rain in the first half of January. Of the first eighteen days of the year no less than twelve experienced heavy falls.

January 1st.

Argyll.—Glenbranter .....2·91 *in.* or 3·1 per cent.

January 2nd.

Lancashire.—Ambleside (Skelwith Fold) .....2·64 *in.* or 2·9 per cent.
Yorkshire.—Hawes J. (Moorland Cott.).....2·88 *in.* or 4·0 per cent.
Cumberland.—Borrowdale (The Moraine).....*4·16 in.* or *3·5* per cent.

Westmorland.	*in.*	%
Ambleside (U.D.C.).....	*2·78*	*3·4*
Ambleside (King's School)	2·65	3·8
Ambleside (Market Sq.) ..	*2·97*	*3·5*
Rydal (Stepping Stones) ..	*2·66*	*2·9*
Rydal (High Close)	*3·09*	*3·3*
New Dungeon Ghyll Hotel	4·34	3·7
Grasmere (The Wray)	*2·64*	*2·6*

Lanark.	*in.*	%
Airdrie (Broomknoll St.) ..	2·95	7·4
Caldercruix (Hillend R.) ..	2·50	5·6
Strathaven (Glengavel R.).	2·71	4·5
Strathaven (Dungall)	2·75	4·8
Coalburn.....	2·55	5·5
Strathaven (Kype Res.)...	2·63	4·3
Carmunnock (Carnbooth) .	2·80	5·7
Glengarnock (Chem. Wks.)	2·75	5·0
Gartcosh (Gartlock Hos.)	3·26	7·5
Chryston Schoolhouse ...	2·93	6·6

Ayr.	*in.*	%
Newmilns (Lanfine)	2·83	5·0
Templetonburn	2·53	5·4
Darvel (Kirkland Park) ..	3·12	5·5
Kilmarnock (N. Craig Res.)	2·75	5·3
Fenwick (Whiteliehill)	3·93	6·2
Fenwick (Amlaird F.)	2·77	5·0
Blair Gardens	2·56	4·7
Dalry (Templand)	2·77	5·0
Beith (Filter Station)	3·32	5·4
Kilbirnie (Holehouse F.) ..	2·73	3·8
Kirkland (Dunlop)	3·54	6·0
Afton Reservoir Filters ...	*2·71*	*2·8*

Clackmannan.	*in.*	%
Dollar (Dollarbeg).....	2·66	6·4

Renfrew.	*in.*	%
Howwood (Midtown House)	3·15	5·3
Kilbarchan (Milliken Pk.) .	2·50	5·0
Kilmacolm	3·47	4·5
Shaws W.W. (Hole Glen)..	2·55	3·8

Dumbarton.	*in.*	%
Garelochhead (Ardarroch)	2·98	3·8
Arrochar (Benreoch).....	3·30	3·3
Renton (Carman Filters) .	2·55	4·9
Milngaire (Dougalston)....	2·92	6·1

Stirling.	*in.*	%
Stronachlachar (Invergyle)	2·80	3·0
Kilsyth (Innsbridge).....	2·66	4·9

Bute.	*in.*	%
Corrie (The Manse)	3·20	4·5

Argyle.	*in.*	%
Glenleven (Blackwater D.)	*2·60*	*2·4*
Brenchoille	2·51	2·8
Ardnadam (Hafton House)	2·70	3·5
Glencroe (Guithas Cot.) ..	2·98	2·7
Crarae Lodge	2·68	3·4
Loch Eck (Benmore)	3·90	4·1
Loch Shiel (Polloch Ho.) .	3·10	3·0

January 2nd—continued.

Inverness.	*in.*	or %	*Inverness.*	*in.*	or %
Loch Quoich (Glenquoich)	3·45	2·9	Kinlochleven (Kinlochmore)	*3·39*	*3·1*
L. Quoich (Kinlochquoich)	3·84	3·0	Loch Arkaig (Glendessary)	2·70	2·4

The first widespread heavy fall of the year was on January 2nd when heavy rain occurred in the English Lake District and over south-west Scotland. The largest totals occurred over part of Borrowdale, where more than 4 inches was recorded. More than 3 inches was measured over a large area in Inverness-shire, including Loch Quoich and stretching as far south as Loch Shiel, over much of Loch Aber, over a large area round Loch Long, to the south of Greenock and over part of Arran. Considerable flooding occurred in Kilmarnock, the general rainfall over the catchment area of the River Irvine above Kilmarnock being nearly 2·5 inches. A photograph of Queen's Drive, Kilmarnock at 11h. on January 3rd is given as the *frontispiece*. The flood water eventually reached a height of 6 ft. at the cottage in the photograph. The total rainfall was less than ·5 inch along a wide strip along the east coast of Great Britain and near the Solway Firth, no rain at all being recorded at Thirsk and York.

January 3rd.

Argyll.—Glen Etive .....3·32 *in.* or 2·9 per cent.

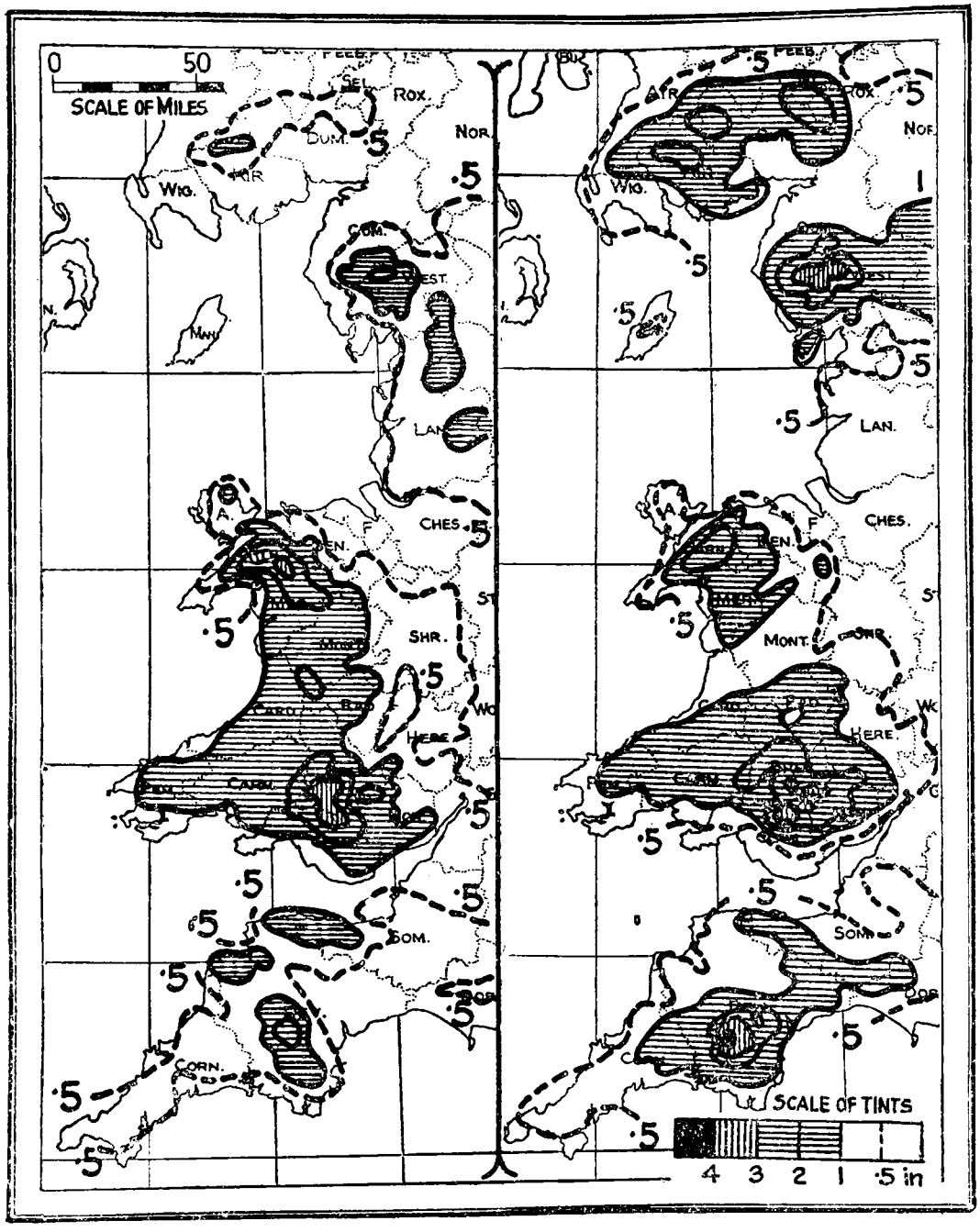
January 5th.

Devon.—Postbridge (Warren H. Inn) .....*3·03 in.* or *4·1* per cent.

Glamorgan.	*in.*	or %	*Brecon.*	*in.*	or %
Rhondda W.W. (Llyn Fawr R.)	3·42	3·4	Taf Fechan (Neuadd R. 1A)	3·50	3·8
Fairwater (Glan Ely Hos.)	2·70	5·5	Taf Fechan (Neuadd R. 4)	3·25	3·6
Treherbert (Tyn-y-Waun)	*3·12*	*3·3*	Taf Fechan (NeuaddR.11A)	*2·72*	*3·1*
Cwmaman Colliery	*3·63*	*4·8*	Ebbw Vale W.W. (Llangynidr)	*2·78*	*3·8*
Rhondda (Castel Nos. Res.)	*3·18*	*3·6*	Trecastle (Blaenau-hydfer)	*2·61*	*3·3*
Rhondda (Lluest Wen Res.)	4·94	5·1	Swansea W.W. (Cray Res.)	3·18	4·3
Ystalyfera (Wern House) .	2·74	3·8			
Carmarthen.			*Merioneth.*	*in.*	or %
Llyn-y-fan Fach (Nant C.)	*2·74*	*3·2*	Blaenau Festiniog (Oakeley Q.)	3·72	3·5
Brecon.			Blaenau Festiniog (Llechwedd Q.).....	3·78	3·4
Swansea W.W. (Nantyr-wydd)	3·05	3·4			
Ystradfellte Reservoir	3·21	3·9			
Cardiff W.W. (Storey Arms)	3·67	3·9			
Cardiff W.W. (Garw-nant)	2·60	3·3	*Caernarvon.*	*in.*	or %
Cardiff W.W. (Cantref R.).	2·52	3·4	Snowdon (Llydaw Intake).	*2·80*	*1·9*
Cardiff W.W. (Beacons R.)	3·02	3·6	Snowdon (Cwm Dyli)	3·58	3·1

The heavy rain of January 5th was confined mainly to parts of North and South Wales, although small areas in the English Lake District and over Dartmoor received more than 2 inches. As much as 4·94 inches was recorded in the Rhondda Valley at Lluest Wen Res. An area of about 560 square miles in South Wales received more than

2 inches and 170 square miles more than 3 inches. The distribution of the rainfall of this day is shown in the diagram map.



Rainfall, 5th January, 1932, Rainfall, 9th January, 1932.

The total rainfall at Loch Quoich (Kinlochquoich) for January 1st to 5th was 11·43 inches.

January 7th.

Devon.—Dartmoor (Swincombe) .....*2·56 in.* or *2·9* per cent.

January 9th.

Devon.	*in.*	or %
South Brent (Badworthy)	*2 84*	*3·4*
Cornwood (Yealm Head)	2·74	4·0
Holne (Church Park Cott.)	4·15	5·6
Ashburton (Hele House) ..	*2·93*	*5·1*
Princetown (Huccaby Ho.)	*2·55*	*3·8*
Princetown (Wydemeet) ..	3·75	4·9
Princetown (H.M. Prison)	*4·20*	*4·2*
Postbridge (Warren H. Inn)	3·78	5·1
Postbridge (Archerton) ...	3·42	..
Ilsington	2·85	5·2
Bovey Tracey (Hedgbarton)	3·05	5·0
Moretonhampstead (Bullaton)	3·26	6·3
Moretonhampstead(Mardon)	2·66	5·8
North Bovey (Manor H.)..	2·50	4·8
Christow (Kennick)No. 1 .	2·86	6·0
Chagford (Fernworthy) ...	3·30	4·7
Chagford (Metherall)	*3·26*	*4·9*
Moretonhampstead Stinhall).....	2·52	4·8
Christow (Laployd).....	3·38	6·7
Chagford (Thornworthy) ..	3·49	4·7
Chagford (Dartmoor San.).	2·75	4·9
Chagford (Huish)	2·66	5·1
Okehampton (Uplands) ...	2·80	4·9

Cumberland.	*in.*	or %
Buttermere (Hassness) ...	*3·40*	*2·9*
Watendlath Farm	*3·18*	*3·2*
Borrowdale (The Moraine)	*3·81*	*3·2*
Keswick (Lingholm Gdns.)	*2·90*	*3·7*
Keswick (Derwent Is.) *old*	*2·66*	*3·7*

Westmorland.	*in.*	or %
Patterdale Hall	3·72	3·6
New Dungeon Ghyll Hotel	*3·65*	*3·1*
Grasmere (The Wray)	*2·62*	*2·5*

Monmouth.	*in.*	or %
Ebbw Vale (Iron Works) .	2·84	4·7
Goytre (Goytre Hall)	2·89	5·7

Glamorgan.	*in.*	or %
Rhondda (Llyn Fawr R.)	*2·88*	*2·9*
Mountain Ash(Darranlas R.)	3·32	4·8
Mountain Ash (Maesydderwyn)	3·31	5·4

Glamorgan.	*in.*	or %
Treherbert (Tyn-y-waun)..	*3·00*	*3·1*
Cwmaman Colliery	3·65	4·8
Rhondda (Castel Nos Res.)	3·23	3·6
Rhondda (Lluest Wen Res.)	*3·30*	*3·4*
Merthyr Tydfil (Penybryn)	2·81	4·5
Dowlais (Gwernllwyn)	3·09	5·5
Dowlais (Garth F. Beds) ..	2·71	4·3
Rhymney Bridge Res.	3·15	4·6

Carmarthen.	*in.*	or %
Llyn-y-fan Fach (Nant C.)	*2·65*	*3·1*

Brecon.	*in.*	or %
Aberdare (Nanthir Res.) ..	3·45	5·1
Cardiff W.W. (Storey Arms)	2·66	2·8
Cardiff W.W. (Llwynon R.)	2·72	4·0
Cardiff W.W. (Garw-Nant)	*2·57*	*3·2*
Taf Fechan (Pentwyn R. S)	2·84	3·9
Taf Fechan (Neuadd R. 1A)	*3·10*	*3·4*
Taf Fechan (Neuadd R. 4).	*3·00*	*3·3*
Taf Fechan (NeuaddR.11A)	2·98	3·4
Ebbw Vale W.W. (Llangynidr)	3·25	4·4
Ebbw Vale W.W. (Carno S)	3·21	4·5
Ebbw Vale W.W. (Carno E)	3·21	4·5
Ebbw Vale W.W. (Carno W)	3·27	4·4
Ebbw Vale W.W. (Carno N)	3·26	4·6
Talybont (Fynonwen)	2·73	4·0
Crickhowell (Gwernvale) ..	2·60	5·8
Crickhowell (Glanusk Pk.).	2·70	5·8
Talybont (Ashford).....	2·53	4·9
Trecastle (Blaenau-hydfer)	*2·95*	*3·8*
Brecon (Tairbull Sch.)	2·59	4·4
Brecon (Ffrwdgrech)	3·29	5·9
Brecon (Mount St. Sch.) ..	2·71	5·2

Caernarvon.	*in.*	or %
Lake Eigiau (Dam Site)...	2·84	3·6
Bethesda (St. Ann's Vic.) .	3·02	4·8

Ayr.	*in.*	or %
Afton Reservoir Filters ...	2·89	3·0

Argyll.	*in.*	or %
Ardkinglas	2·53	3·0

The distribution of the rainfall of January 9th is shown in the diagram map side by side with that for January 5th. There is considerable similarity in the distribution for the two days. On the 9th the falls were in general heavier, however, especially over Dartmoor and the English Lake District. The amounts for both the 5th

and 9th were quite small over most of the eastern half of Great Britain, the total at Cambridge for these two days being about ·1 inch.

The largest amounts for the 9th occurred at Princetown (H.M. Prison) and Holne (Church Park Cottage), *viz.*, 4·20 and 4·15 inches, respectively. There was an area of 400 square miles over Dartmoor with more than 2 inches and an area of 180 square miles with more than 3 inches. A large area of about 834 square miles in South Wales recorded more than 2 inches, with four small areas of 70, 30, 18 and 18 square miles, respectively, of more than 3 inches.

Much of the English Lake District received more than 2 inches and 155 square miles more than 3 inches. The largest total reported from this area was 3·81 inches at Borrowdale (The Moraine). In Scotland more than 2 inches was recorded over much of the Southern Uplands, in the neighbourhood of Loch Long and on Ben Nevis.

January 10th.

Devon.—Dartmoor (Fox Tor).....*2·56 in.* or *3·3* per cent.

January 12th.

Devon.	*in.*	%
South Brent (Badworthy)	*2·88*	*3·5*
Holne (Church Park Cott.)	*2·87*	*3·9*
Princetown (H.M. Prison)	*2·98*	*3·0*

Cornwall.	*in.*	%
Sithney Council School ...	2·96	5·2

Glamorgan.	*in.*	%
Rhondda W.W. (Llyn Fawr R.)	*3·03*	*3·1*
Pontycymmer (Garw Sch.)	2·68	3·6
Mountain Ash(Darranlas R.)	*2·66*	*3·9*

Glamorgan.	*in.*	%
Treherbert (Tyn-y-waun)..	3·27	3·4
Rhondda (Castel Nos R.)	*3·11*	*3·5*
Rhondda (Lluest Wen R.).	*2·80*	*2·9*

Carmarthen.	*in.*	%
Carmarthen (Mod. & Prac. Sch.)	2·70	5·3
Llyn-y-fan Fach (Nant C.)	*2·55*	*3·0*

Brecon.	*in.*	%
Swansea W.W. (Cray Res.)	*2·60*	*3·5*

On January 12th heavy falls were again experienced in South Wales, as much as 3 inches being recorded in the Rhondda Valley and over Dartmoor.

January 14th.

Argyll.	*in.*	%
Carnoch	*2·84*	*2·8*
Glenleven (Blackwater D.)	*2·65*	*2·4*
Glenleven (Kinlochleven) .	3·50	3·3

Perth.	*in.*	%
Killin (Auchmore Gdns.) .	2·95	4·6
Glenlyon (Meggernie Cas.)	2·57	3·6
Loch Ness (Aberchalder) .	2·73	5·5
Tyndrum Manse	2·70	2·6

Inverness.	*in.*	%
L. Quoich (Kinlochquoich)	*3·00*	*2·3*
Loch Arkaig (Glendessary)	*2·55*	*2·3*
Loch Eil (Achdalieu)	2·79	3·6
Roy Bridge (A. Leachdach)	3·33	4·8
N. Ballachulish(Altshellach)	2·86	..
Kinlochleven(Kinlochmore)	3·64	3·3
L. Ness (Killin, Whitebridge).	2·62	3·7
Ardverikie	3·30	5·3

The heavy falls of January 14th were confined to parts of Argyllshire, Perthshire and Inverness-shire, the largest falls being 3·64 inches, and 3·50 inches at Kinlochleven (Kinlochmore Lodge) and Glenleven Kinlochleven) respectively.

January 15th.

Westmorland.	*in.*	or %
Patterdale (Greenside M.)	*2·50*	*2·2*

Argyll.	*in.*	or %
Ardgour	*2·52*	*2·2*
Glenleven (Blackwater D.)	4·25	3·9
Glenleven (Kinlochleven)	*2·70*	*2·5*

Argyll	*in.*	or %
Bridge of Orchy (Inveroran)	*2·60*	*3·0*
Loch Quoich (Glenquoich)	*2·58*	*2·1*
Glen Etive	*2·50*	*2·2*

Perth.	*in.*	or %
Glengyle	2·65	2·6

Mayo.	*in.*	or %
Aasleagh House	3·14	3·4

The heavy falls of January 15th occurred over much the same areas as those for the 14th. The largest fall was 4·25 inches at Glenleven (Blackwater Dam). The total recorded at this station for the 14th and 15th was as much as 6·90 inches.

The entry of 3·14 inches for Aasleagh House in Connemara is the largest of the year for Ireland.

January 16th.

Caernarvon.—Lake Eigiau (Dam Site) .....*2·63 in.* or *3·3* per cent.
Inverness.—Loch Arkaig (Glendessary) .....*2·59 in.* or *2·3* per cent.

January 18th.

Inverness.—Skye (Scalpay Island) .....2·77 *in.* or 3·4 per cent.

March 29th.

Westmorland.—Kentmere Head Reservoir.....*2·70 in.* or *2·5* per cent.
Caernarvon.—Snowdon (Llydaw Intake) .....*2·85 in.* or *1·9* per cent.

March 30th.

Caernarvon.—Llanbedr-y-Cennin (Llyndulyn) .....*2·55 in.* or *2·4* per cent.

April 9th.

Cumberland.—Watendlath Farm .....*2·53 in.* or *2·5* per cent.

May 1st.

Oxfordshire.	*in.*	or %
Middleton Park	2·27	8·5
Upper Heyford	2·04	7·9

Wiltshire.	*in.*	or %
Calne (Compton Bassett)	2·64	7·2
Chiseldon (Hodson House)	2·63	7·4
Swindon (Commonweal S.)	2·55	7·7
Swindon (Town Gardens)	2·46	7·8

Worcestershire.	*in.*	or %
Worcester (Perdiswell)	2·23	7·5

Warwickshire	*in.*	or %
Bidford (Moor Hall)	2·74	9·9
Temple Grafton Court	2·03	7·6
Alcester (Ragley Hall)	2·20	7·8
Stratford (Crimscote)	2·30	7·9

Monmouth.	*in.*	or %
Blackwood	2·60	5·2

Brecon.	*in.*	or %
Ebbw Vale W.W. (Llangynidr)	*2·76*	*3·7*
Ebbw Vale W.W. (Carno S)	*2·74*	*3·8*
Ebbw Vale W.W. (Carno E)	*2·75*	*3·8*
Ebbw Vale W.W. (CarnoW)	*2·76*	*3·7*
Ebbw Vale W.W. (Carno N)	*2·74*	*3·9*

A thunderstorm in the afternoon and evening of May 1st caused hea vy falls in the south-western half of England and Wales, more

than half an inch occurring over a large area including most of Wales and stretching as far east as Brighton and Southend. (See also Section 6). More than 2 inches was recorded over a large area including Chippenham, Swindon, and Marlborough, and flooding ensued. Although Chippenham itself escaped the worst of the storm, heavy rain on the hills caused floods first in Calne and later in Chippenham, the main Bath and Swindon roads were flooded, and in the lower end of the town water reached a depth of 4 feet in business premises, a number of which were obliged to close temporarily. At Chiseldon (Hodson House) 1·13 inches fell in one hour and an entry is given in Section 6, Table XV. More than 2 inches was also recorded over a small area in Oxfordshire to the west of Bicester, and a similar fall occurred to the south of Alcester and near Worcester. The river Avon flooded and as a consequence the racecourse at Pershore (Worcestershire) was under water to a depth of more than two feet causing the abandonment of racing there on the 2nd and 3rd. In South Wales the largest totals were recorded in Ebbw Vale, where a number of stations reported about 2·7 inches. More than 2 inches was also recorded to the west of Pontypool, to the north of Brecon and over a fairly large area in Cardiganshire.

May 11th.

Merioneth.—Blaenau Festiniog (Llechwedd Q.) .....2·90 *in.* or 2·6 per cent.

Although there is only one entry in the table for May 11th a number of stations in Merionethshire, Caernarvonshire and Westmorland reported more than 1 inch.

May 12th.

Westmorland.—Kendal (Potter Fell) .....*3·17 in.* or *3·1* per cent.

Merioneth.	*in.*	or %
Blaenau Festiniog (Oakeley Q.)	*3·02*	*2·8*
Blaenau Festiniog (Llechwedd Q.)	*3·15*	*2·8*

Caernarvon.	*in.*	or %
Snowdon (Llydaw Intake)	*2·80*	*1·9*
Snowdon (Cwm Dyli)	*2·71*	*2·3*

On May 12th heavy falls were experienced in Merionethshire and Caernarvonshire and also in Westmorland. A large number of stations recorded between 1·5 and 2 inches and the total for the two days, May 11th and 12th, amounted to as much as 6·05 inches at Blaenau Festiniog (Llechwedd Quarries). Other large totals for the two days were 5·37 inches at Blaenau Festiniog (Oakeley Quarries), 4·78 inches at Snowdon (Cwm Dyli), 4·75 inches at Snowdon (Llydaw Intake), and 4·21 inches at Kendal (Potter Fell).

May 15th.

Oxfordshire.—Bampton (C.E. School) .....2·18 *in.* or 7·9 per cent.
Gloucestershire.—Northleach (Sherborne Ho.) .....2·79 *in.* or .. per cent.

On May 15th, a thunderstorm at night caused heavy rain over the western half of Oxfordshire extending into Gloucestershire.

At Leafield (Wireless Station) the storm lasted from 21h. 30m. to 23h. 50m. and 1·54 inches fell between 21h. 30m. and midnight.

May 21st.*

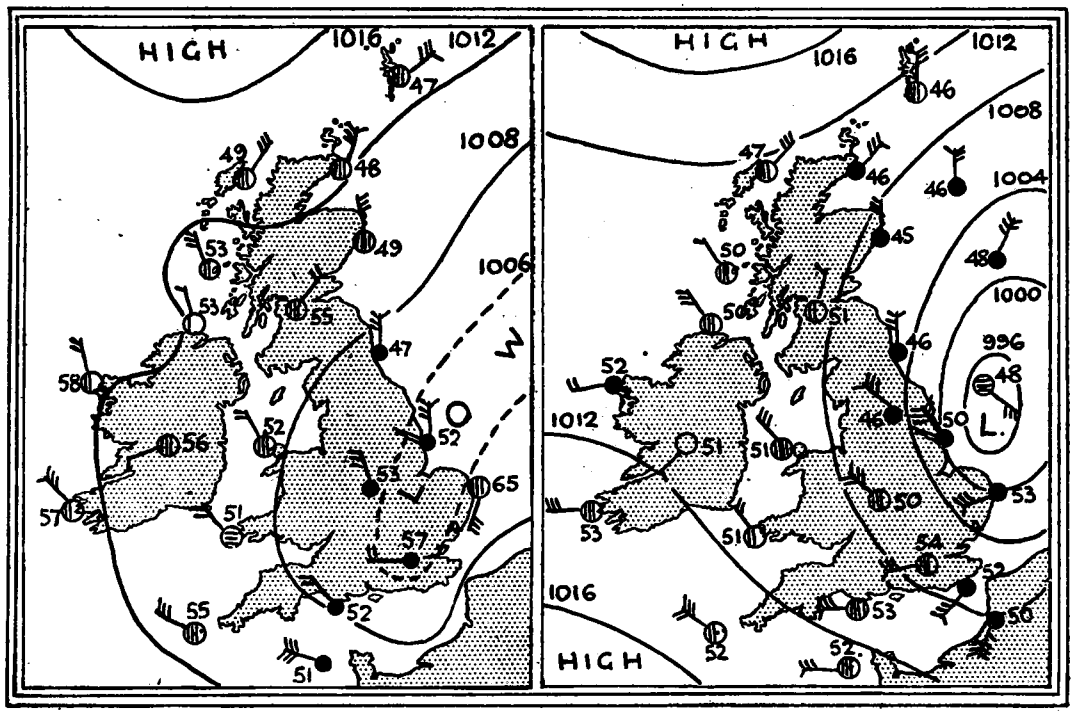
Staffordshire.	*in.*	or %
Burton Reservoir	2·65	9·2
Leicestershire.	*in.*	or %
Hinckley (Edward St.)....	2·36	8·0
Thornton Reservoir	2·65	9·2
Cropstone (Bradgate Res.)	2·34	8·1
Barkby Hall	2·40	8·2
Swithland (The Brand) ...	2·70	8·7
Ashby-de-la-Zouch	2·35	8·2
Charnwood F. (Charley H.)	2·38	8·1
Charnwood F. (Blackbrook)	2·35	8·3
Loughborough (Park Road)	2·44	9·0
Loughborough (Sewage F.)	2·42	8·4
Lincolnshire.	*in.*	or %
Wroot (S. Level P. Stn.) ..	2·40	11·5
Crowle (N. Level P. Stn.)..	2·62	11·6
Crowle (Snowdrop Villa) ..	2·88	12·9
Nottinghamshire.	*in.*	or %
Nottingham (Strelley)	2·33	8·6
Nottingham (Strelley H.) .	2·44	9·2
Eastwood (Moorgreen R.) .	2·32	8·3
Annesley (Selston W.W.)..	2·62	9·8
Attenborough	2·51	10·0
Beeston (Council Depôt) ..	2·32	8·7
Bramcote Reservoir	2·57	10·5
Nottingham (Burford Rd.).	2·38	8·8
Bagthorpe (Isolation Hos.).	2·28	8·5
Sutton-in-Ashfield (Rushley W.W.)	*2·38*	*8·3*
Sutton-in-Ashfield (Sew. W.)	2·52	8·8
Mansfield(Rainworth W.W.)	2·30	8·8
Mansfield (Carr Bank)	2·43	8·5
Mansfield (West Bank)....	2·37	8·2
Mansfield (Debdale Hall)..	2·66	9·3
Clipstone Waterworks	2·38	9·2
Warsop	2·35	9·1
Ollerton (Thoresby Gdns.).	2·64	10·5
Welbeck Abbey	2·97	11·4
Worksop (Hodsock Priory)	2·48	11·0
Harworth Colliery.....	2·52	10·9
Retford (Morton Hall) ...	2·41	10·3
Retford (Babworth Hall)..	2·44	10·7
Retford Sewage Works ...	2·58	10·4
Worksop (Wigthorpe Hill)	2·68	12·3
Bawtry Council School ...	2·89	10·6
Scrooby	2·48	10·4
Bawtry Hall Gardens	3·12	12·3
Derbyshire.	*in.*	or %
Repton (The Croft).....	2·57	8·7
Stanton-by-Bridge W.W. .	2·50	8·9
Derbyshire.	*in.*	or %
Etwall Sewage Farm	2·34	8·0
Etwall Hall	2·41	8·3
Littleover (The Knoll) ...	2·42	8·5
Littleover (Hilltop).....	2·45	8·4
Spondon (Derby Sew. Wks.)	3·10	10·8
Derby (Wild St.)	3·22	10·7
Derby (L.M.& S. Rly.)....	2·42	9·2
Derby (Royal Infirmary) .	2·45	8·1
Derby (The Arboretum) ..	2·46	8·9
Duffield (The Kirkstyles)..	2·92	9·5
Brackenfield (Lindway R.)	2·98	9·2
Matlock (Rockside Hydro)	2·37	7·5
Clay Cross (Press Res.)....	2·40	7·5
Burbage (Parsons House) .	2·52	6·4
Long Eaton (The Hall) ...	2·65	10·4
Ilkeston (New Stanton) ..	2·36	8·1
Heanor (Sharplow)	2·38	8·2
Chesterfield (Linacre R.) ..	2·45	7·5
Mickleover (County M.H.).	3·10	11·0
Spinkhill (Mt. St. Mary's Coll.)	2·90	11·5
Yorkshire.	*in.*	or %
Lindrick Common (Woodside)	3·30	13·4
Sheffield W.W. (Crookes)..	2·80	8·9
Rotherham(UlleyRes.)No.3	2·89	11·7
Rotherham (Sitwell Vale) .	2·75	10·5
Rotherham (Kimberworth S.)	2·45	10·2
Rotherham (Aldwarke Sew. Wks.)	3·55	14·8
Ecclesfield (Sew. Wks.)...	3·96	12·9
Rawmarsh	3·25	13·5
Wentworth Woodhouse ..	3·51	11·9
Mexborough	2·90	13·6
Wortley (Service Res.)....	3·10	9·9
Wath-upon-Dearn (Chapel St.)	2·85	12·4
Doncaster (Avenue Road)	3·15	12·0
Doncaster Pumping Stn...	3·19	12·7
Bolton-on-Dearn (Goldthorpe)	2·88	12·3
Barnsley (Jordan Hill) ...	2·86	11·7
Bentley Colliery	3·08	13·0
Cawthorne (Cannon Hall) .	2·30	9·1
Barnsley (Burntwood H.) .	3·25	13·5
Kirk Bramwith	3·33	14·0
Goole.....	3·06	12·0
Normanton (Haw Hill Pk.)	2·68	12·3
Pontefract (The Kings Sch.)	2·87	13·2

* 43 entries of less than 2·25 inches have been omitted.

May 21st—continued.

Yorkshire.	*in.*	or %
York (Middlethorpe Hall) .	2·63	10·2
York (Chalfonts)	2·67	10·6
York (Bishopthorpe Rd.) .	2·52	10·8
Tockwith School	2·90	10·3
Osgodby (Fruit Test. Stn.).	3·08	12·7
Birdsall (Gardens).....	2·67	10·5
York (Heslington).....	3·09	11·4
York (Dunnington Hall) ..	2·32	9·0
York (Museum)	2·77	11·1
Stockton-on-Forest (Stockton H.)	2·83	13·8
Haxby (Moorlands)	2·25	10·9
Yorkshire.	*in.*	or %
Holme-on-Spalding Moor..	3·58	14·1
Welburn	2·67	10·1
Egton Bridge (Bridgeholme)	2·65	7·3
Glaisdale (The Gables) ...	2·96	7·3
Sleights (The Hall)	3·08	9·4
Castleton	2·60	7·0
Whitby (Park Hall, Aislaby)	2·86	9·0
Whitby (Westthorpe)	2·32	8·1
Whitby (Mulgrave Castle)	2·55	8·3
Rossington Main Colliery .	3·14	14·2
Cloughton (Cober Hill)....	3·12	9·8

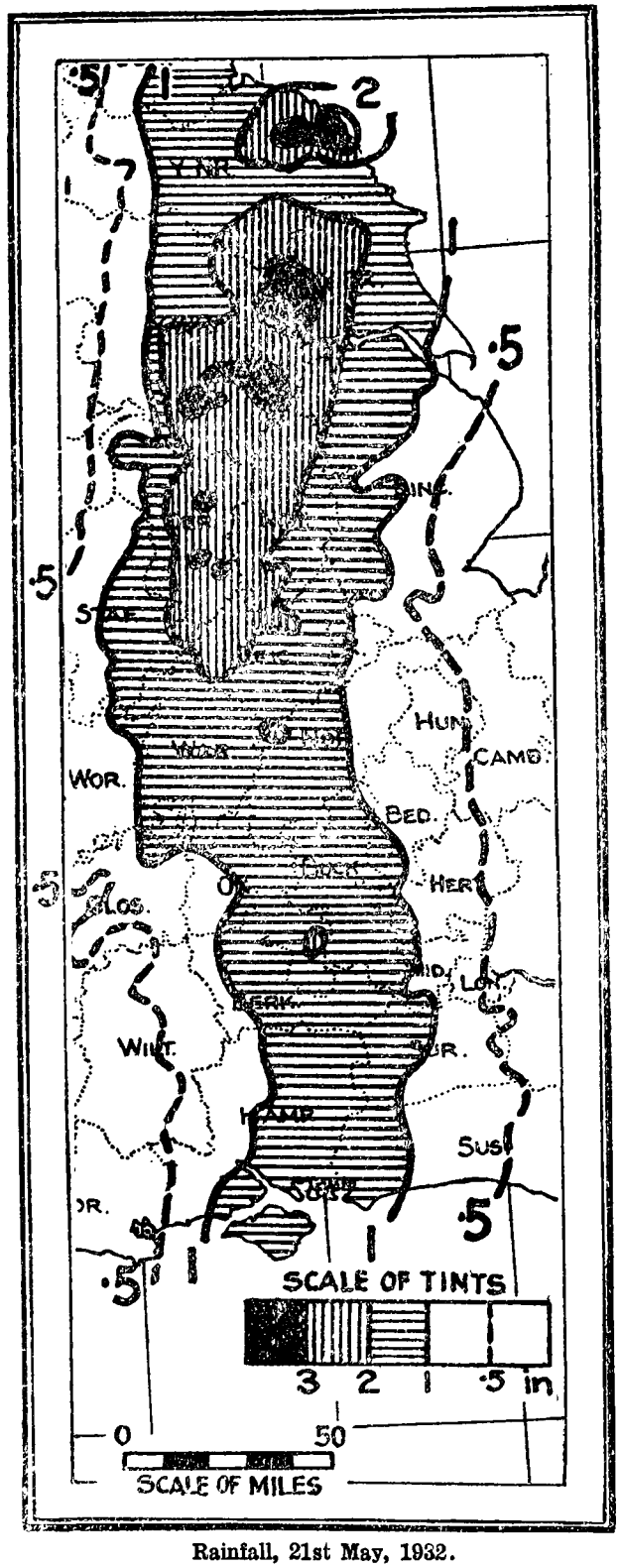
A depression which moved from the English Channel to off the north-east coast of England on the 21st to 22nd caused heavy falls in the Midlands and Yorkshire and considerable flooding ensued. Weather maps corresponding with observations made at 18h. on May 21st and 7h. on May 22nd are reproduced and the distribution of the



Synoptic Charts, 21st May, 1932, 18h. and 22nd May, 1932, 7h.

rainfall of May 21st is shown in the diagram map. An area some 60–80 miles wide, stretching from Southampton and Littlehampton in the south to Flamborough Head and Newcastle in the north, received more than 1 inch. More than 2 inches fell over some 3,580 square miles between Nuneaton and Malton and over some 430 square miles in the North Yorkshire Moors. More than 3 inches was recorded over 22 square miles near Derby, 14 square miles to the east of Matlock,

54 square miles to the north of Sheffield, 116 square miles near Doncaster, 190 square miles to the south-east of York and 130 square miles



Rainfall, 21st May, 1932.

in the North Yorkshire Moors. Serious flooding occurred in the Birmingham district and at Castle Bromwich a number of families were temporarily rendered homeless. At Bedworth, Warwickshire, water reached almost to the ceilings of the lower rooms. Much damage was caused at Derby and the floods smashed shop windows and put the electric light, tram-ways and telephone services out of commission. The most serious flooding was in the Don Valley. The floods invaded several factories and collieries in Rotherham and Sheffield and in Bentley more than 2,000 houses were flooded.

At Leamington Spa the river Avon (which drains to the Severn Estuary) flooded the site of the rain-gauge to a depth of some 3 ft., but no record was lost since the peak flood did not occur until 15h. on the 22nd, and the rainfall had ceased there before 9h. when measurements were made.

The means of the daily amounts recorded at twenty stations distributed fairly evenly over the catchment area of the river Don draining to Doncaster, were ·57, 2·50, ·42 and ·13 inches for the four days 20th to 23rd, respectively, a total of 3·62 inches immediately before the maximum flow. At Rivelin Reservoir, to the west of Sheffield, the total for May 20th to 23rd was 3·62 inches and the following information is obtained from the recording gauge:— ·54 inch fell between 7h. and 10h. on the 21st, *i.e.*, in 3 hours; 1·75 inches between 22h. 20m. on the 21st and 6h. 20m. on the 22nd, *i.e.*, in 8 hours and ·52 inch between 4h. and 7h. 30m. on the 23rd, *i.e.*, in 3½ hours. At the G.E.C. Telephone Works at Coventry 1·65 inches was recorded between 21h. 30m. on the 21st and 5h. on the 22nd. Captain J. C. A. Roseveare, in his paper on "Land Drainage in England and Wales," read before the *Institution of Water Engineers*, in December, 1932, records that water stood in the streets of Bentley for more than a month and that in the Bentley and Arksey area £30,000 worth of damage is stated to have been done to houses and lands. These heavy rains recall those of May 11th to 13th, 1886, which produced disastrous floods over the greater part of the West and Midland Counties of England. On that occasion more than 4 inches was recorded over some 3,500 square miles in Shropshire, Hereford, Monmouth, Montgomery and parts of the adjoining counties.

June 30th.

Dorset.	*in.*	or %
Broadwindsor (Blackdown)	2·65	..
Devon.	*in.*	or %
Roborough (Maristow G.)	2·85	5·0
Bickley (Roborough Res.)	2·59	4·7
Lee Moor House	3·27	4·6
Yelverton (Oakfield).....	3·13	5·0
Sheepstor (Redstone)	3·40	5·3
Sheepstor (Burrator)	3·15	4·9
Sheepstor (Head Weir) ...	3·25	5·0
Devon.	*in.*	or %
Dousland Reservoir	3·46	5·4
Dartmoor (Lowery)	2·75	5·2
Whitchurch (Grenofen) ...	2·74	5·1
Whitchurch (Langstone) ..	3·47	5·5
Tavistock	3·07	5·6
Horrabridge (Furzetor) ...	3·26	5·1
Tavistock (The Library) ..	2·81	5·6
Mary-Tavy (Blackdown) .	2·82	4·4
Lydford (Naseby)	3·14	5·4
South Brent (Beechfield) .	2·86	4·1

June 30th—continued.

Devon.	*in.*	or %
South Brent (Badworthy)	3·88	4·7
Cornwood (Yealm Head)..	*2·50*	*3·6*
Waddeton Court	2·60	5·7
Stoke Gabriel (Maisonnette)	2·73	5·2
Totnes (Walrond House) ..	2·68	5·1
Holne (Church Park Cott.)	*3·28*	*4·4*
Ashburton (Hele House) ..	2·96	5·1
Princetown (Huccaby Ho.)	3·45	5·2
Princetown (Wydemeet) ..	3·75	4·9
Princetown (H.M. Prison)	5·00	5·0
Ilsington	*2·77*	*5·0*
Moretonhampstead (Bullaton)	*2·80*	*5·4*
Christow (Kennick) No. 1 .	*2·65*	*5·5*
Chagford (Fernworthy) ...	*2·77*	*3·9*
Chagford (Metherall)	3·35	5·1
Christow (Laployd).....	*2·85*	*5·7*
Chagford (Thornworthy) ..	*2·63*	*3·5*
Ottery St. Mary (E. Hayes)	2·83	7·1
Membury (Green Down) ..	2·51	5·7
Stockland (Post Office) ...	3·05	6·7

Cornwall.	*in.*	or %
Liskeard (Lewarne)	3·10	5·4
Launceston (North Hill) ..	2·64	4·4
Bolventor Vicarage.....	2·55	3·6
St. Mellion (Pentillie C.) ..	2·58	5·4

Somerset.	*in.*	or %
Chard (High St. C. Sch.)..	2·66	5·8
Combe St. Nicholas	2·51	5·5
Wayford Manor.....	2·53	5·8

Gloucestershire.	*in.*	or %
St. Briavels House	3·20	7·0

Cumberland.	*in.*	or %
Watendlath Farm	*2·75*	*2·7*
Borrowdale (The Moraine)	*2·86*	*2·4*

Westmorland.	*in.*	or %
Patterdale Hall	*2·57*	*2·5*
New Dungeon Ghyll Hotel	*2·70*	*2·3*
Kentmere Head Reservoir	3·70	3·4
Kendal (Potter Fell).....	*3·07*	*3·0*

Glamorgan.	*in.*	or %
Felindre (Upper Lliw Res.)	2·67	4·1
Ystalyfera (Wern House) .	*2·50*	*3·5*
Rhondda W. W. (Llyn Fawr R.)	*3·16*	*3·2*
Rhondda (Castel Nos R.).	*2·98*	*3·3*
Treherbert (Tyn-y-waun) .	*3·10*	*3·2*

Brecon.	*in.*	or %
Ystradgynlais (Yniscedwyn Ho.).....	2·70	4·2
Trecastle (Blaenau-hydfer)	*2·72*	*3·5*

Caernarvon.	*in.*	or %
Snowdon (Llydaw Intake).	*2·80*	*1·9*

The break up of the June drought occurred in general with the approach to the British Isles of a deepening secondary depression on the 30th. Some large totals were recorded on June 30th at stations in south and south-west England, South Wales, north-west Wales and the English Lake District, due in part to thunderstorm rains. More than 2 inches was measured over a fairly large part of northern Dorset and southern Somerset and over an area of 1,015 square miles of South Devon and east Cornwall. More than 3 inches was recorded over a small area near Bodmin and over 190 square miles of Dartmoor. At Princetown (H.M. Prison) 5·00 inches was measured, the duration being 20·1 hours. This followed a fall of 1·75 inches in 8·8 hours on June 29th, making a total of 6·75 inches for the two days, June 29th–30th. The storm was severe in the north of Cornwall, houses near Launceston and Camelford being struck by lightning and houses at the latter place flooded. More than 2 inches was recorded over the Forest of Dean (as much as 3·20 inches being measured at St. Briavel's House), over a large area stretching from Abergavenny almost to Swansea and to the west of Brecon. A small area around

Treherbert received more than 3 inches. More than 2 inches was also recorded in Snowdonia and over much of the English Lake District, 3·70 inches being measured at Kentmere Head Reservoir.

July 1st.

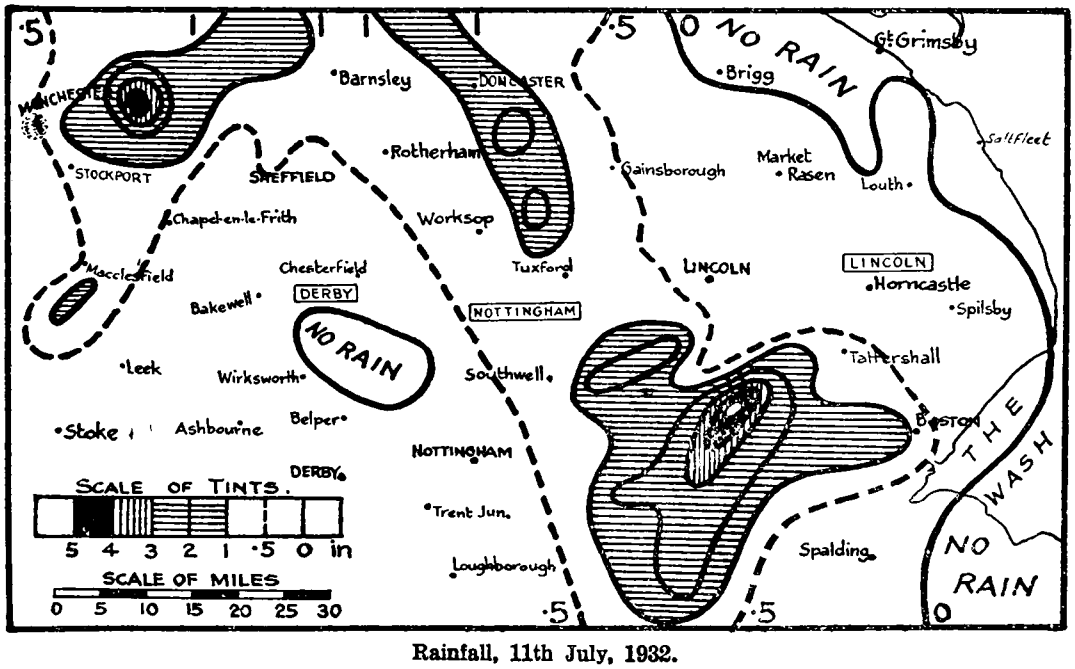
Devon.	*in.*	or %
Dartmoor (Fox Tor)	3·73	4·9
Dartmoor (Swincombe) ...	3·76	4·3
Monmouth.	*in.*	or %
Blaenavon (Estate Office) .	2·57	3·8
Caernarvon.	*in.*	or %
Llanbedr-y-Cennin (Melynllyn)	3·82	3·2
Llanbedr-y-Cennin (Llyndulyn)	2·90	2·7

July 5th.

Caernarvon.—Llanbedr-y-Cennin (Melynllyn) .....*2·80 in.* or *2·4* per cent.

July 11th.*

Lincolnshire.	*in.*	or %
Stainby Rectory	*2·16*	*8·4*
Grantham (Saltersford)...	*2·69*	*9·6*
Culverthorpe	*2·33*	*8·2*
Sleaford (Kesteven M. Hos.)	2·40	8·3
Cranwell Aerodrome	5·14	17·8
Carlton-le-Moorland	2·55	9·7
Woolsthorpe	2·22	8·3
Nottinghamshire.	*in.*	or %
Retford (Babworth Gdns.).	*2·26*	*9·9*
Scrooby	*1·94*	*8·1*
Bawtry Hall Gardens.....	*2·67*	*10·5*
Bawtry Council School ...	*2·30*	*8·4*
Newark	2·85	10·2
Cheshire.	*in.*	or %
Stalybridge (Brushes F. H.)	4·09	9·2
Cheshire.	*in.*	or %
Broadbottom (Harewood L.)	4·74	11·7
Lancashire.	*in.*	or %
Lower Swineshaw Res. ...	3·90	8·5
Colne (Swinden Sew. Wks.)	2·74	5·8
Yorkshire.	*in.*	or %
Barnoldswick (Rainhall Rd.)	5·33	11·5
Batley (Staincliffe Res.)...	1·75	7·6
Aberford (Lotherton Hall).	2·38	9·2
Wetherby (Ribston Hall)..	2·68	9·2
Knaresborough (Goldsboro' Hall)	2·81	9·8
Boltby (Ravensthorpe M.)	2·16	7·5
Pickering (Hungate Hall) .	2·72	9·6
Felixkirk (Mt. St. John)...	3·11	11·0



Rainfall, 11th July, 1932.

* 13 entries of less than 2·25 inches have been omitted.

The distribution of the rainfall of July 11th, as shown in the diagram map, is typical of thunderstorm rains. While more than 4 inches was recorded over three separate areas, there was no rain at all at Matlock Bath, along the east coast of Great Britain and over much of North Wales. More than 2 inches was recorded over a small area around Newark and over 206 square miles around Grantham. More than 3 inches was recorded over 51 square miles to the north-east of Grantham, as much as 5·14 inches being measured at Cranwell Aerodrome where 2·93 inches fell in 1 hour. (See Section 6.) More than 3 inches was recorded over small areas near Stalybridge and Barnoldswick. As much as 4·74 inches was measured at Broadbottom (Harewood Lodge) and 5·33 inches at Barnoldswick (Rainhall Road), this fall being the largest daily rainfall in 1932. (See Table XVIII.) At Barnoldswick (White Moor Pumping Station) rain commenced after 13h. 30m. and was at its heaviest at 15h. 30m. and was practically continuous in a heavy downpour up to 1h. on the 12th. During the first two hours hail as large as a shilling and up to half an inch thick was experienced.

More than 2 inches was also recorded over small areas at Retford and Bawtry, to the south of Tadcaster, and at Knaresborough, Thirsk and Pickering, while more than 3 inches fell at Felixkirk near Thirsk.

Mr. W. F. H. Creber, Engineer to the Manchester Corporation Waterworks, forwards some details of the thunderstorm which occurred during the evening of July 11th to the east of Manchester. At Arnfield Reservoir and Godley Reservoir the amounts for the period 16h. to 20h. were 3.05 inches and 3.64 inches, respectively. At Lower Swineshaw Reservoir and Stalybridge (Brushes Filter House), where records are maintained by Mr. T. B. Whitson, the amounts for the rainfall day were 3·90 inches and 4·09 inches, respectively. The bulk of the rainfall occurred within 4 hours from 16h. to 20h. Mr. Creber compares the storm with that of June 18th, 1930, when 3·59 inches was measured at Rhodes Wood Reservoir and 4·10 inches at Glossop Waterworks (Swineshaw) nearer the Peak. So far as the catchment area of the Manchester Corporation in the Longdendale Valley is concerned Mr. Creber concludes that "in amount and intensity the fall on July 11th, 1932, is a record, taking into account the area over which 3 inches or more fell." The damage to watercourses, etc., was certainly greater then than on June 18th, 1930.

July 12th.

Essex.	*in.*	or %
Vange Pumping Station...	1·48	8·1
Suffolk.	*in.*	or %
Assington Hall	1·74	8·7
Elmsett (Laurel Cottage)..	1·65	7·6
Shropshire.	*in.*	or %
Oswestry (Mount Res.) ...	2·69	7·0
Cumberland.	*in.*	or %
Keswick (Lingholm Gdns.)	*2·66*	*3·4*
Keswick (High Hill)	*2·56*	*4·1*
Keswick (Derwent Is.) *old*	*2·83*	*4·0*
Portinscale (High Moss)...	*2·70*	*3·9*
Montgomery.	*in.*	or %
Welshpool (County Sch.) .	*3·30*	*9·6*
Llandysilio Rectory	3·39	10·2

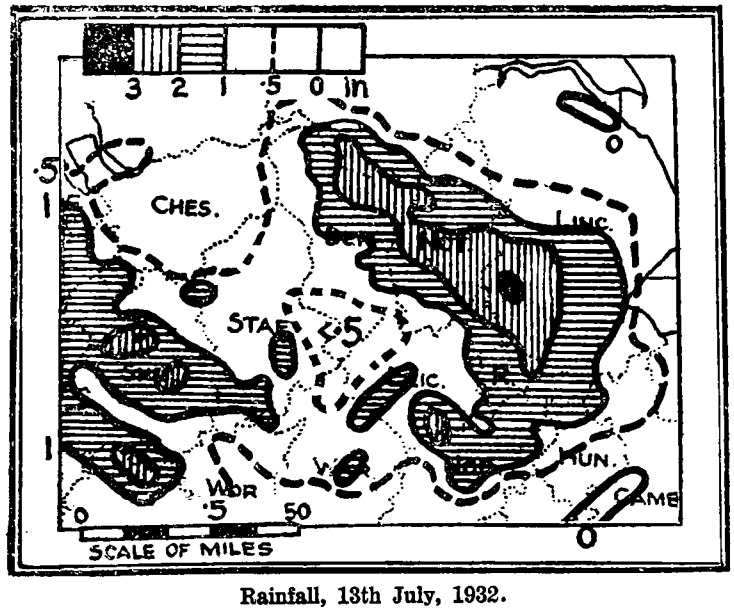
July 12th—continued.

Flint.	*in.*	or %
Hawarden (County Sch.)	2·17	7·6
Denbigh.	*in.*	or %
Wrexham W.W. (Ty Mawr)	2·75	6·7
Denbigh.	*in.*	or %
Wrexham W.W. (Cae Llwyd)	2·62	6·7
Wrexham W.W. (Cae Llwyd)	2·66	6·5

Most stations in the British Isles reported no rain for July 12th, but falls of more than 2 inches were recorded between Welshpool and Chester and in the neighbourhood of Keswick. Heavy rain was also recorded in parts of Essex and Suffolk, but many stations along the coast received no rain at all.

July 13th.

Northamptonshire.	*in.*	or %
Naseby Reservoir	2·37	8·2
Herefordshire.	*in.*	or %
Leominster (Hennor)	2·31	7·6
Eyton (Old Hall)	2·71	..
Shropshire.	*in.*	or %
Shrewsbury (Beckbury Ho.)	2·33	8·3
Shrewsbury (Radbrook H.)	2·95	10·3
Shrewsbury (Longden Rd.)	3·14	11·3
Shrewsbury (Copthorne)	2·44	9·0
Leicestershire.	*in.*	or %
Welford (The Reservoir)	2·41	7·9
Belvoir Castle	2·41	8·6
Lincolnshire.	*in.*	or %
Stainby Rectory	2·34	9·1
Denton Manor	2·48	8·4
Grantham (Saltersford)	3·29	11·7
Culverthorpe	2·80	9·9
Sleaford (Kesteven M. Hos.)	*2·30*	*8·0*
Cranwell Aerodrome	*2·40*	*8·3*
Nottinghamshire.	*in.*	or %
East Bridgford	2·96	11·4
Newark	*2·78*	*10·0*
Burton Joyce Waterworks	2·61	9·9
Bulwell (Bestwood W.W.)	2·37	9·3
Daybrook (Ramsdale Hill)	2·52	8·5
Papplewick Waterworks	2·28	8·4
Sutton-in-Ashfield (Rushley W.W.)	2·65	9·2
Montgomery.	*in.*	or %
Llandysilio Rectory	*2·93*	*8·8*
Wicklow.		
Rathnew (Clonmannon)	2·60	7·9
Blessington Rectory	2·70	6·4
Roundwood (Vartry Lodge)	2·80	7·2
Kildare.	*in.*	or %
Clongowes Wood College	2·97	8·5
Dublin.	*in.*	or %
Rathfarnham Castle	2·30	8·2



Rainfall, 13th July, 1932.

Some references to the intense rains of July 11th to 13th are given in Section 6. A map is given showing the distribution of the rainfall of July 13th. The total amount varied from rather more than 3 inches at Grantham and Shrewsbury to none at all near Grimsby and Cambridge. An area of some 1,050 square miles stretching from Stamford to the west of Sheffield received over 2 inches.

July 24th.

Berkshire.	*in.*	or %
Long Wittenham (Willington)	2·47	8·5

Oxfordshire.	*in.*	or %
Culham	1·97	7·7

Wiltshire.	*in.*	or %
Devizes (Broadleas)	2·82	8·5
Devizes (Highclere)	3·42	10·1
Bishops Cannings	2·99	8·4
Bishops Cannings (Shepherds Shore)	2·55	7·4
Aldbourne (Upham House)	2·88	7·8

Somerset.	*in.*	or %
Shepton Mallett (Pondsmead)	2·59	4·9
Mells (Selwood)	2·87	7·0
Lullington	2·62	7·0

Yorkshire.	*in.*	or %
Helmsley (Boys' School)	2·36	7·7

Mr. H. W. Green, F.R.Met.Soc., writing from Devizes (Highclere), sends the following comments :—

> " Sunday morning, July 24th, dawned with rain which though slight continued with occasional bright intervals giving hope of a fair day. At 14h. rain began to fall heavily and continued with a few slight interruptions till 22h. 30m. when the clouds dispersed though only for a short period. After midnight rain came down again with the same tropical intensity and the garden paths were like rivers. I think the heaviest falls were between 16h. 30m. and 17h. During a brief lull in the deluge I went out at 18h. 30m. and found 1·27 inches and measured a further 2·15 inches next morning."

July 25th.

Kent.	*in.*	or %
Dungeness	1·93	7·6
Appledore (The Well Ho.)	2·07	7·8
Folkestone (Radnor Park)	2·91	9·8
Waldershare Rectory	2·48	8·5
Waldershare Park Gardens	2·67	9·0
Shepherdswell (Upton Lo.)	2·62	8·4
Deal & Walmer W.W.	2·42	9·2
Deal (Wellington Road)	1·94	8·5
Worth (Upton House)	1·98	7·8
Worth (Felder Lodge)	1·89	8·3
Lower Standen	2·32	8·0

July 29th.

Caernarvon.—Snowdon (Llydaw Intake) .....*2·50 in.* or *1·7* per cent.

Mention may be made of a fall of 2·34 inches at Baltasound in Unst (Shetland), although it does not qualify for inclusion in the tables of this article, since it is said that the " oldest inhabitant " does not remember the like. Some details are given in the *Meteorological Magazine*, 1932, p. 184.

August 1st.

London.	*in.*	or %
Old Ford Pumping Stn. ..	2·49	10·1
Old Ford (Penstock House)	2·25	9·5

Essex.	*in.*	or %
West Ham (Abbey Mills)..	1·80	7·8
Leyton (Sewage Works)...	1·96	8·5
Manor Park (London Cem.)	2·35	10·2

The *Cork Examiner* for August 15th gives details of an intense thunderstorm during Thursday night, August 11th in North Mayo, where the intense rain caused sides of the mountains to break away at three different points and deposit earth and rock on the road between Bangor and Bellacorick. The Oranmore river became a raging torrent and a number of bridges were destroyed.

August 11th.

Herefordshire.—Rickmansworth (Croxley G.) .....2·44 *in.* or 8·2 per cent.

Some details of the heavy rain of August 12th are given in Section 6.

Some details of intense rains for August 13th are given in Section 6, in addition Mr. S. Parker Hutchinson reports the following from Castle Lough, near Nenagh, Co. Tipperary :—

> " A cloud-burst on the Arra Mountain to the south-east of Lough Derg, did an enormous amount of damage. It was a very local storm, as rain only fell in an area of five miles east and west and probably about seven miles north and south. In this area roads were all impassable, and seven or eight bridges were carried away or damaged, houses were flooded and a child drowned. At one bridge, water was eleven feet above the normal level and another small river about a yard wide came down 30 yards wide and 6 feet deep. The gauge at Castle Lough on Lough Derg registered 1·71 inches, nearly all of which fell between 14h. 45m. and 19h. 15m., but we were only on the edge of the storm."

August 14th.

Buckinghamshire.—Little Kimble .....2·00 *in.* or 7·7 per cent.

August 20th.

Berkshire.	*in.*	or %
Wellington College	2·57	9·7
Wokingham	1·78	7·6
Sonning-on-Thames	1·76	7·6
Mortimer (Wokefield Pk.) .	2·05	8·1
Reading W.W. (Bath Road)	1·94	7·9
Reading (Forbury Gdns.)..	2·12	8·8
Reading (University Coll.).	2·19	8·8
Reading (Caversham Lock)	2·24	9·9
Bradfield (Buckhold Hill Ho.).....	2·51	8·4
Yattendon Court Apiary..	2·10	7·7
Twyford (Hare Hatch)....	1·89	8·0

Buckinghamshire.	*in.*	or %
Henley-on-Thames (Greenlands)	2·14	9·0
Amersham Common (Stanmore)	2·40	8·2
Chesham (Nashleigh Hill).	2·14	7·6

Oxfordshire.	*in.*	or %
Harpsden (Cray)	2·02	8·0
Henley-on-Thames (Hart St.)	2·00	8·4
Henley-on-Thames (Greys Lane)	2·22	8·7
Shiplake	2·25	8·4

Bedfordshire.	*in.*	or %
Luton (Pumping Stn.)	2·18	7·8
Sandy (Mogerhanger Park)	1·95	7·8
Great Barford House	1·78	7·8

Devon.		
Dolton (Hilliers)	2·52	6·2

Herefordshire.	*in.*	or %
Sarnesfield Court.....	2·84	8·7
Pembridge (Moor Court)..	2·58	8·5
Pembridge (Burton Court)	2·46	7·5
Byton Rectory	2·66	..

August 20th—continued.

Shropshire.	*in.*	or %
Bridgnorth (Cantreyn) ...	2·28	7·9

Staffordshire.	*in.*	or %
Kinver (Prestwood)	2·25	7·8
Kingswinford (Ashwood P.S.)	2·34	8·0

Worcestershire.	*in.*	or %
Kidderminster (P. Stn.) ..	2·75	9·9

Merioneth.	*in.*	or %
Llanuwchllyn.....	2·52	3·9

Isle of Man.	*in.*	or %
Douglas (Clypse Road, Onchan)	3·32	7·5
Douglas (Borough Cem'ty.)	3·29	7·2

The thunderstorms experienced during August occurred at the close of two unusually warm periods around the 11th and 19th. No rain was recorded over western and central Scotland, the north-west of Ireland and in South Wales. Falls of one inch and more were recorded over much of the southern half of Ireland and from Longford to Belfast, in the Isle of Man and over four separate patches between Snowdon and London, including (a) Lake Bala (b) Radnor Forest to Stafford (c) the Cotswold Hills and (d) from Newbury to Bedford, including the Chilterns. The largest falls occurred in the Isle of Man, 3·3 inches being recorded at Douglas. Wetter days are, however, on record for the Isle of Man, *e.g.*, 4·35 inches at Ramsey for September 17th, 1930, 4·95 inches at Douglas (Clypse Reservoir) for September 15th, 1918, and 3·82 inches at The Dhoon for November 6th, 1890.

The *Luton News* for September 8th reports that the bulk of the 2·18 inches of rain on August 20th, recorded at Luton, fell in about two hours and that as a result the river Lea rose five and a half feet in a very short time and that the sewage works were flooded out.

The *Dudley Herald* for August 27th refers to the storm of the night of August 20th to 21st as one of the worst in living memory in the Black Country. Considerable damage was caused by lightning, *e.g.*, at Tipton, a lecture room of the Princes End Baptist Church was set on fire, while considerable flooding occurred in the low-lying districts at Netherton, Blackheath and Halesowen.

August 21st.

Buckinghamshire.	*in.*	or %
Swanbourne House School	3·16	10·7
Mursley Hall	2·79	10·0
Stony Stratford (Calverton L.)	2·02	7·9

Oxfordshire.	*in.*	or %
Wroxton	2·15	7·8

Bedfordshire.	*in.*	or %
Southill School	2·08	8·1
Shefford Council School ..	2·10	7·9

Devon.	*in.*	or %
Morebath Manor	2·64	5·3
Littleham (Orleigh Court).	2·78	5·9
Dolton (Hilliers)	2·52	6·2

Gloucestershire.	*in.*	or %
Gloucester (The Park)	2·71	8·9
Cheltenham (Hewletts R.).	2·28	7·8
Blockley	2·89	8·5

Brecon.	*in.*	or %
Black Mountains (Dam Site)	2·50	4·3

August 29th.

Hertfordshire.	*in.*	or %		*in.*	or %
Ware (Chadwell Spring)...	1·72	7·7	Much Hadham	1·95	7·6

Heavy falls were not numerous during September and October and call for little comment.

September 1st.

Lancashire.	*in.*	or %	*Westmorland.*	*in.*	or %
Hawkshead (Larch Ghyll).	*2·74*	*2·9*	Ambleside (Market Sq.) ..	*2·54*	*3·0*
Hawkshead (Bettyfold)...	*2·60*	*3·0*	Rydal (Stepping Stones) ..	3·06	3·3
			Rydal (High Close)	3·31	3·5
			New Dungeon Ghyll Hotel	*4·03*	*3·4*
Yorkshire.	*in.*	or %	Kentmere Head Reservoir.	*2·99*	*2·7*
Hawes Junction (Moorland Cott.)	*2·70*	*3·7*	Grasmere (The Wray) ...	*3·00*	*2·9*
			Kendal (Potter Fell).....	*3·07*	*3·0*
			Kendal (Ellergreen)	2·70	4·2
Cumberland.	*in.*	or %			
Buttermere (Hassness) ...	*2·76*	*2·3*	*Inverness.*	*in.*	or %
Borrowdale (The Moraine).	*2·75*	*2·3*	L. Quoich (Kinlochquoich).	*2·97*	*2·3*

September 2nd.

Lancashire.	*in.*	or %	*Lancashire.*	*in.*	or %
Blackburn (Witton)	2·59	6·6	Sabden (Whins House)....	2·75	6·6
Wilpshire (Brooklyn Road)	2·71	6·4	Sabden (Churn Clough R.).	3·02	6·2
Great Harwood (Parsonage Res.)	3·00	6·6	Barley (Ogden Res.).....	3·08	5·9
			Pendle Hill (Buttock)	3·42	5·6
Great Harwood (Dean Clough)	3·06	6·3	Stonyhurst College	2·80	6·0
Nelson (Coldwell Res.) S.2	2·54	4·8	*Glamorgan.*	*in.*	or %
Cowley Brook (Preston W.W.)	2·80	5·4	Rhondda W.W. (Llyn Fawr Res.)	*2·62*	*2·6*
Spade Mill (Preston W.W.)	2·83	6·5	Treherbert (Tyn-y-waun)..	*2·74*	*2·9*

September 7th.

Devon.	*in.*	or %	*Brecon.*	*in.*	or %
Postbridge (Archerton) ...	2·50	..	Ebbw Vale W.W. (Carno E)	*2·66*	*3·7*
			Ebbw Vale W.W. (CarnoW)	*2·76*	*3·8*
Brecon.	*in.*	or %	Ebbw Vale W.W. (Carno N)	*2·70*	*3·8*
Ebbw Vale W.W. (Llan-gynidr 1)	*2·77*	*3·8*	*Caernarvon.*	*in.*	or %
Ebbw Vale W.W. (Carno S)	*2·70*	*3·8*	Snowdon (Llydaw Intake).	*2·80*	*1·9*

September 22nd.

Sussex.	*in.*	or %	*Sussex.*	*in.*	or %
Seaford (Bowden Ho. Sch.)	2·18	8·4	Seaford	1·79	7·5
Seaford (Southdown Sch.).	2·13	7·8			

October 7th.

Devon.	*in.*	or %	*Glamorgan.*	*in.*	or %
Princetown (Wydemeet) ..	*2·54*	*3·3*	Merthyr Tydfil (Penybryn F.)	*2·77*	*4·4*
Princetown (H.M. Prison)	*2·74*	*2·8*			
Monmouth.	*in.*	or %	*Brecon.*	*in.*	or %
Abersychan (Glansychan) .	2·60	4·2	Taf Fechan (Pontsticill)...	2·61	4·0

October 8th.

Kent.	*in.*	or %
Lydd (The Paddock)	2·18	7·9
Lydd (Westbroke)	2·19	8·2

Devon.	*in.*	or %
Dartmoor (Swincombe)	*2·60*	*2·9*

October 20th.

Devon.—Postbridge (Archerton) .....4·21 *in.* or .. per cent.

October 21st.

Carmarthen.	*in.*	or %
Llyn-y-fan Fach (Nant C.)	3·31	3·8
Llyn-y-fan Fach (Troed-y-Foel)	3·08	4·2

Brecon.	*in.*	or %
Swansea W.W. (Nantyr-wydd)	*2·58*	*2·9*
Trecastle (Blaenau-hydfer)	3·07	3·9
Cardiff W.W. (Storey Arms)	*2·68*	*2·8*

Merioneth.	*in.*	or %
Trawsfynydd Camp	2·63	3·6

Caernarvon.	*in.*	or %
Lake Eigiau (Dam Site)	*2·52*	*3·2*
Snowdon (Llydaw Intake)	*2·90*	*1·9*
Snowdon (Cwm Dyli)	*3·18*	*2·7*

October 22nd.

Glamorgan.—Cwmaman Colliery .....*2·81 in.* or *3·7* per cent.

October 23rd.

London.—Spring Gardens .....1·70 *in.* or 7·6 per cent.

October 25th.

Caernarvon.—Snowdon (Llydaw Intake) .....2·60 *in.* or 1·7 per cent.

October 29th.

Merioneth.—Blaenau Festiniog (Llechwedd Q.) .....*2·86 in.* or *2·5* per cent.
Caernarvon.—Snowdon (Cwm Dyli) .....*2·65 in.* or *2·3* per cent.

November 3rd.

Argyll.	*in.*	or %
Ardgour	3·83	3·3
Carnoch	2·85	2·8
Glencoe Gardens	2·50	2·8
Glenleven (Blackwater D.)	*2·55*	*2·3*
Morvern (Kingairloch)	3·57	3·2

Inverness.		
Loch Quoich (Glenquoich)	*3·44*	*2·8*
L. Quoich (Kinlochquoich)	*2·95*	*2·3*
Glenmoriston (Ceannacroc)	3·78	4·9
Inverness (Ruigh Ard Asy.)	2·50	6·3

Inverness.	*in.*	or %
Beauly (Culmill)	2·65	6·3
Loch Arkaig (Achnacarry)	3·08	3·4
Skye (Kyleakin, Dunringell)	2·86	4·1
Invergarry (The School H.)	2·50	3·3
Ardverikie	*2·73*	*4·4*
Clunes (Loch Lochy)	2·50	3·0

Ross & Cromarty.	*in.*	or %
Glenshiel (Ratagan)	2·85	3·1
Loch Duich (Inverinate)	2·85	3·4

The heavy rain of November 3rd was confined to the northern half of Scotland, few stations elsewhere in the British Isles recording more than ·1 inch. Falls of more than 3 inches occurred on Ben Nevis and over a large area stretching from Morven to Loch Afric.

November 4th.

Inverness.—L. Arkaig (Glendessary).....*2·60 in.* or *2·3* per cent.

November 5th.

Inverness.—L. Arkaig (Glendessary) .....*2·60 in.* or *2·3* per cent.

November 26th.

Inverness.—Loch Quoich (Glenquoich).....*2·56 in.* or *2·1* per cent.

November 30th.

Devon.—Holne (Church Park Cott.) .....*2·50 in.* or *3·4* per cent.
Inverness.—Clunes (Loch Lochy).....2·50 *in.* or 3·0 per cent.

December 15th.

Perth.	*in.* or %	
Glengyle	*2·50*	*2·5*

Perth.	*in.* or %	
Glendevon (Tormaukin)...	*2·80*	*4·8*

December 16th.

Lancashire.	*in.* or %	
Hawkshead (Bettyfold) ...	3·10	3·6
Hawkshead (Larch Ghyll)	3·52	3·7

Cumberland.	*in.* or %	
Buttermere (Hassness)....	4·92	4·2
Keswick (Lingholm Gdns.)	3·62	4·6
Keswick (High Hill).....	2·87	4·6
Keswick (Derwent Is.) *old*.	3·13	4·4
Portinscale (High Moss)...	3·09	4·4
Cockermouth (Loweswater)	3·72	5·2
Borrowdale (The Moraine).	5·18	4·4
Watendlath Farm.....	4·75	4·7
Caldbeck (Wellbank)	2·82	3·7

Westmorland.	*in.* or %	
Patterdale Hall	*3·65*	*3·6*
Patterdale (Greenside M.) .	4·13	3·7
Bowness (Dawstone)	2·65	3·8
Windermere (Nurseries) ..	2·92	4·1
Windermere (Hammar Bk.)	2·67	3·8
Windermere (Holehird) ...	2·71	3·5
Ambleside (U.D.C.)	3·38	4·1
Ambleside (Wansfell)	2·98	3·8
Ambleside (White Craggs).	3·19	3·8
Ambleside (Market Sq.) ..	3·16	3·8
Rydal (Stepping Stones)..	*3·03*	*3·3*
Rydal (The Hall)	3·02	3·2
New Dungeon Ghyll Hotel.	*4·10*	*3·5*
Grasmere (The Wray).....	3·33	3·2
Kendal (Potter Fell).....	3·50	3·4

Caernarvon.	*in.* or %	
Snowdon (Llydaw Intake).	3·15	2·1

Kirkcudbright.	*in.* or %	
Dalry (Forest Lodge)	2·81	3·5
Carsphain (Shiel).....	2·86	3·4

Dumfries.	*in.* or %	
Evan Water School.....	2·84	4·5
Gubhill School	2·50	4·4

Selkirk.	*in.* or %	
Ettrick Manse	2·66	4·1

Renfrew.	*in.* or %	
Kilmacolm	2·60	3·4

Argyll.	*in.* or %	
Glenleven (Blackwater D.)	*2·66*	*2·4*
Bridge of Orchy (Inveroran)	*2·80*	*3·2*

Perth.	*in.* or %	
Glendevon (Glengyle)	3·04	5·0
Glendevon (Frandy)	3·07	4·8
Glendevon (Tormaukin)...	2·85	4·9
Tyndrum Manse	*2·50*	*2·4*

Inverness.	*in.* or %	
Glenleven (Blackwater D. N.)	2·50	2·3

Kerry.	*in.* or %	
Killarney (Mental Hos.)...	2·52	5·1

Mayo.	*in.* or %	
Aasleagh House.....	*2·68*	*2·9*

More than 3 inches was recorded for December 16th over a large area in the English Lake District and in Snowdonia, but most stations in Wales, the southern Midlands and east coast districts of England recorded no rain at all. Some 1,050 square miles in the English Lake District received more than 2 inches, of which 380 square miles recorded more than 3 inches and about 115 square miles more than 4 inches. As much as 5·18 inches was measured at Borrowdale (The

Moraine). In Scotland more than 2 inches fell over the Southern uplands, over much of the Western Highlands and the Ochil Hills, but little rain fell in coastal districts. Most stations in Ireland recorded more than ·5 inch, while more than 1 inch occurred over large areas especially in the south-west and north-west.

December 17th.

Lancashire.	*in.*	or %
Coniston (School Garden) .	2·50	2·6
Hawkshead (Larch Ghyll)	*2·59*	*2·8*

Cumberland.	*in.*	or %
Buttermere (Hassness) ...	*2·68*	*2·3*
Borrowdale (The Moraine)	*4·05*	*3·4*
Watendlath Farm	*3·28*	*3·2*

Dumfries.	*in.*	or %
Eskdalemuir Observatory .	3·15	4·4

Argyll.	*in.*	or %
Bridge of Orchy (Inveroran)	2·81	3·2

At Borrowdale (The Moraine) the total rainfall for the 16th and 17th amounted to 9·23 inches.

December 18th.

Cumberland.—Buttermere (Hassness) .....*2·65 in.* or *2·2* per cent.

At Buttermere (Hassness) the total rainfall, December 16th to 18th, was 10·25 inches. The observer at Watendlath Farm to the south of Keswick, describes the weather of December 16th to 18th as very wild with rain for three days continuously, apart from half an hour on the 17th, the total for these days being 9·16 inches. At Borrowdale (The Moraine) Mr. G. Scott's weather notes for the 16th and 17th are " continuous rain, with very heavy squally downpours, roads and fields flooded," and for the 18th " practically continuous but light."

Largely owing to the heavy rainfall in Borrowdale, Derwent Water and Bassenthwaite were joined. This also occurred as a result of the heavy rainfall of November 3rd, 1931, see *British Rainfall*, 1931, p. 73.

December 19th.

Ayrshire.—Maybole (Culzean Castle) .....2·65 *in.* or 5·8 per cent.

At Evan Water School, near Moffatt, in Dumfries-shire, the total for the six days 14th to 19th amounted to 9·12 inches.

December 22nd.

Ayr.—Afton Reservoir (Filters).....*2·55 in.* or *2·6* per cent.

Kerry.	*in.*	or %
Killarney (Lakeview)	2·75	4·8

Kerry	*in.*	or %
Kenmare (Sheen Falls) ...	3·10	4·6

8. MONTHLY RAINFALL IN 1932.

Information as to the rainfall of the months of 1932 is set out in this section in various forms :—

(1) Table XIX gives generalized values of the monthly and annual rainfall over the British Isles as a whole and also over the constituent countries separately.

(2) On pages 84-85 details are given of some of the largest and smallest monthly totals of rainfall reported during 1932.

(3) In Table XX the monthly and annual totals of rainfall are set out for 400 stations, distributed evenly over the British Isles.

(4) Table XXI gives the monthly and annual falls expressed as percentages of the averages for 1881 to 1915. It is confined to 150 stations, uniformly distributed over the British Isles, for which averages are available. At the end of this table, general monthly and annual percentage values are given for the British Isles and for each of the constituent countries.

(5) A set of twelve maps showing the distribution of the actual rainfall in each month, is reproduced in this article. A thirteenth map on a larger scale depicting the distribution of rainfall for the whole year appears in Section 10. These maps were originally drawn on the much larger scale of 19 miles to the inch, and values from as many as possible of the 5,000 separate stations were plotted on each map before the isohyetal lines were drawn. Details which would tend to confuse the maps on the small scale of the reproductions have been eliminated.

(6) A second set of twelve maps showing cartographically the distribution of the percentage monthly values given in Table XXI and in the rainfall table published month by month in the *Meteorological Magazine* is also reproduced in this article. The corresponding percentage map for the whole year appears later in Section 10.

General Monthly Rainfall.

The general monthly values given in Table XIX have been computed by applying the percentage values given at the end of Table XXI to the average general values for the period 1881 to 1915. These computed values have been subsequently slightly adjusted in order that the totals for the year should agree with the totals given in Table XXIII which are based on a more exact determination as explained in the text accompanying that table.

Table XIX.—*General Rainfall for* 1932, *computed from the average,* 1881–1915, *by applying the general percentage values given in Tables XXI and XXIII to the General Average Values.*

	England.	Wales.	England and Wales.	Isle of Man.	Scotland.	Ireland.	British Isles.
	in.	in.	in.	in.	in.	in.	in.
January	2·8	7·9	3·5	4·0	7·3	5·1	4·8
February	·5	·2	·5	·1	·6	·3	·5
March..	2·3	3·2	2·4	1·7	4·0	2·3	2·8
April	3·1	4·5	3·3	3·8	4·9	3·4	3·8
May	4·9	5·2	5·0	4·7	3·4	3·5	4·3
June	1·4	2·1	1·5	2·2	1·5	1·7	1·5
July	3·8	5·6	4·1	3·4	4·6	4·8	4·4
August	1·8	2·0	1·9	5·0	2·6	2·7	2·3
September	3·4	4·9	3·7	4·6	5·6	3·5	4·2
October	5·6	8·8	6·1	8·5	8·3	4·4	6·3
November	2·1	4·1	2·4	2·9	4·9	2·6	3·1
December	1·6	4·1	1·9	5·6	6·6	6·8	4·2
Year	33·3	52·6	36·3	46·5	54·3	41·1	42·2

For the standard period 1881 to 1915 December, October and November were the wettest months and April, May and June the driest, while a subsidiary maximum occurred in August. In 1932, however, October was by far the wettest month, while the next wettest months were January, July and May. The driest months were February and June. It is shown in Table XIX that the general monthly rainfall over the British Isles as a whole, varied from 0·5 inch in February to 6·3 inches in October.

February was the driest month in each country and October was the wettest month, except in Ireland where both December and January were wetter than October. During October nearly as much rain fell over the British Isles as during the four driest months February, June, August and March with a total rainfall of 7·1 inches. The rainfall of 1932 exceeded the average during the six months January, April, May, July, September and October. The rainfall of August was less than the average for the first time in six years and that of November for the first time in seven years, while the rainfall of December was again less than the average for the month. Over Scotland 1932 gave the first dry July and the first dry November in seven years.

The general rainfall over the British Isles during February was less than that recorded in any other month since comparable statistics became available in 1870, the general rainfall being computed at 0·5 inch compared with 0·6 inch in March 1929, June 1925 and February 1891. February 1932 was the driest month over Scotland and over

Ireland, but over England and Wales there were about six drier months, of which June 1925 and February 1891, each with 0·1 inch are the most striking. Droughts in the south of England are by no means uncommon, but wet weather often occurs concurrently in the north-western half of the British Isles. The rainfall of the six weeks January 21st to March 3rd was unusual in that while there was some rain everywhere in the British Isles the amounts were always small. Details of the droughts recorded during February are given in Section 3.

The rainfall of February 1932 was so striking that the areas with a rainfall within specified limits have been measured on the original map on a scale of 19 mi. to 1 inch.

February, 1932.

	Total area in sq. mi.				Percentage of total area.			
	Less than		Greater than		Less than		Greater than	
	·01 in.	·25 in.	1 in.	2 in.	·01 in.	·25 in.	1 in.	2 in.
	sq. mi.	sq. mi.	sq. mi.	sq. mi.	%	%	%	%
England ..	190	23,000	2,000	0	·4	45	4	0
Wales ..	70	7,000	300	0	1·0	96	3	0
Scotland ..	40	12,600	4,000	150	·1	42	13	·5
Ireland ..	0	20,000	0	0	0	61	0	0
British Isles .	300	62,600	6,300	150	·2	52	5	·1

So that about 95 per cent. of the British Isles received less than one inch and more than half the total area less than ·25 inch.

Even amongst such recent wet Mays as those of 1924, 1925 and 1931, May 1932 is outstanding. There was a rapid sequence of cyclonic rains over England and Wales, some of which gave unusually heavy falls (see Section 7). The rainfall of May was most remarkable over England and Wales, where the general fall amounted to 5·0 inches or 215 per cent. of the average. Values for earlier years back to 1727 are given in *British Rainfall*, 1931, pp. 300–305. There were nine other Mays in the series covering 206 years with more than twice the average. Apart from May 1924 with 217 per cent., May 1932 ranks as the wettest May during the last 160 years.

The total of 20·20 inches recorded at Glengyle (Glasgow W.W.) was the largest recorded in any *January* since before 1870.

Numerous stations recorded less rainfall during *February* 1932 than in any February since before 1870. These stations were representative of a large part of the west of England and Wales, west and central Scotland and northern and southern Ireland, including stations as far apart as St. Austell (Trevarna), Southport (Hesketh

Park), Borrowdale (Seathwaite), Cardiff (Ely Pumping Station), Haverfordwest, Llandudno, Douglas (Borough Cemetery), Girvan (Pinmore), Blair Atholl, Loch Quoich (Glenquoich), Stornoway, Wick, Gorey (Courtown House), Cork (University College), Collooney (Markree Observatory) and Seaforde.

The total of 5·75 inches recorded at Alness (Ardross Castle) during *April* exceeded that of the previous wettest April, *viz.* that of 1899 with 5·45 inches.

May 1932 was the wettest May since before 1870 at Oxford (Radcliffe Observatory), Derby, Wetherby (Ribston Hall) and Gorey (Courtown House).

August 1932 gave the smallest total for August at Marchmont House, in Berwickshire, since before 1870, *viz.* ·75 inch.

The total of 6·59 inches at Aberdeen (King's College) was greater than that for any other *October* since before 1870.

December 1932 gave the smallest total since before 1870 at Tenterden in Kent (*viz.* ·42 inch) and the largest total on record for December at Borrowdale (Seathwaite) *viz.* 27·25 inches.

Extremes of Monthly Rainfall at Individual Stations.

(*a*) *Monthly Totals.*—More than 30 inches was recorded in January in the English Lake District, and at the head of the River Garry. The largest actual measurements were 34·70 inches at Stye Head and 31·75 inches at Loch Quoich (Loan), but as much as 36·90 inches probably fell at Sprinkling Tarn. The total reached 30 inches in December at Stye Head Tarn at the head of Borrowdale.

On the other hand no measurable rain was recorded during February at a large number of stations, including the following :—

St. Catherine's Point.
Bridport (Coneygar).
Exmouth (Waterworks Road).
Ilfracombe (Bowling Green).
Bude (School House).
Cheddar (Pumping Station).
Minehead (Blenheim Gardens).
Ulverston (Poaka Beck).
Borrowdale (Seathwaite) *garden.*
Gorseinon (Penllergaer.)
Clydach (Wernfadog).
Cardiff (Cogan).
Trecastle (Blaenau-hydfer).
Ayr Cemetery.
Greenock (Prospect Hill).
Glen Etive.
Kilmelfort (Arduaine).
Dalwhinnie.

(*b*) *Monthly percentage totals.*—Monthly totals of more than four times the average were recorded in May at Ombersley (Holt Lock) and in July at Cranwell Aerodrome. At Holt Lock, on the River Severn to the north of Worcester, rain fell on 24 days but the most striking rains occurred on the 1st and 2nd, the 15th and from the 20th to the 23rd when the amounts were 1·78, ·56, ·62, 1·20, ·82, ·18 and 1·26 inches respectively. At Cranwell the large total for July was due mainly to the thunderstorm rains of the 11th and 13th when 5·14 and 2·40 inches respectively were recorded. Other large percentage values were 391 at Alcester (Ragley Hall) for May, when the

total was 8·06 inches of which 2·20, 1·10 and 1·06 inches fell on the 1st, 20th and 21st respectively, and 371 at Calne (Castleway) for May due more especially to the heavy rains of the 1st and 20th to 23rd when 2·16 and 2·02 inches were recorded respectively.

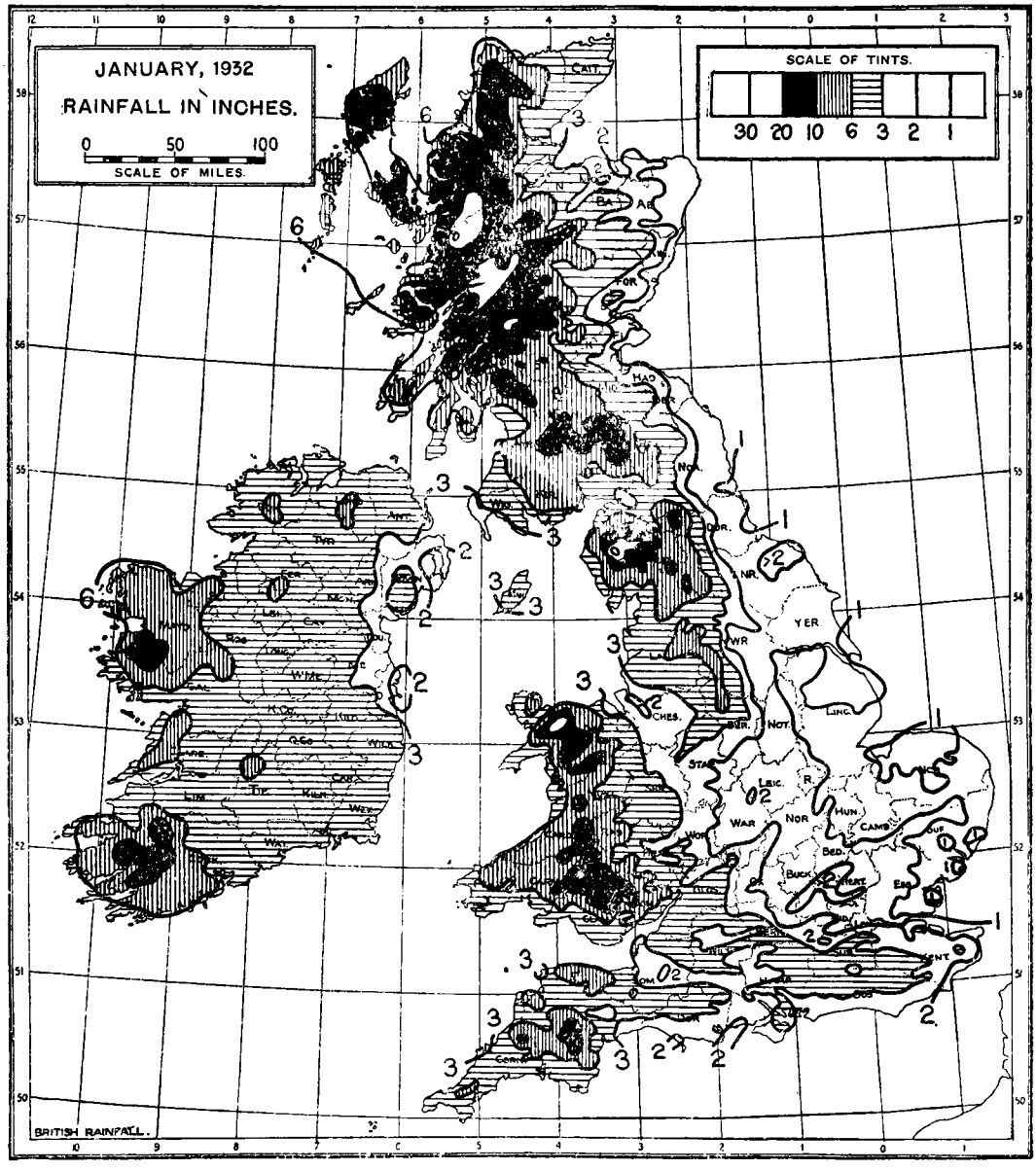
The smallest percentage values occurred in February, when no measurable rain was recorded at a number of stations, as shown above.

The Rainfall and Weather of the Individual Months.

*** Maps showing the distribution of mean pressure and the movements of the centres of depressions for each month are published in the *Monthly Weather Report.*

In the following pages maps are given showing the distribution of the actual rainfall in each month, and of the percentage monthly values, together with a short description of the weather of each month. Further details are given in the *Monthly Weather Report* and in the *Meteorological Magazine.*

January.—The exceptional mildness of December, 1931, was maintained during most of this month. The mean pressure was above the average in all parts of the British Isles apart from the north of Scotland and a marked feature was the steep gradient from about 1005½ mb. at Stornoway to 1024½ mb. at Brighton. Gales occurred widely on several days between the 5th and 14th. Some

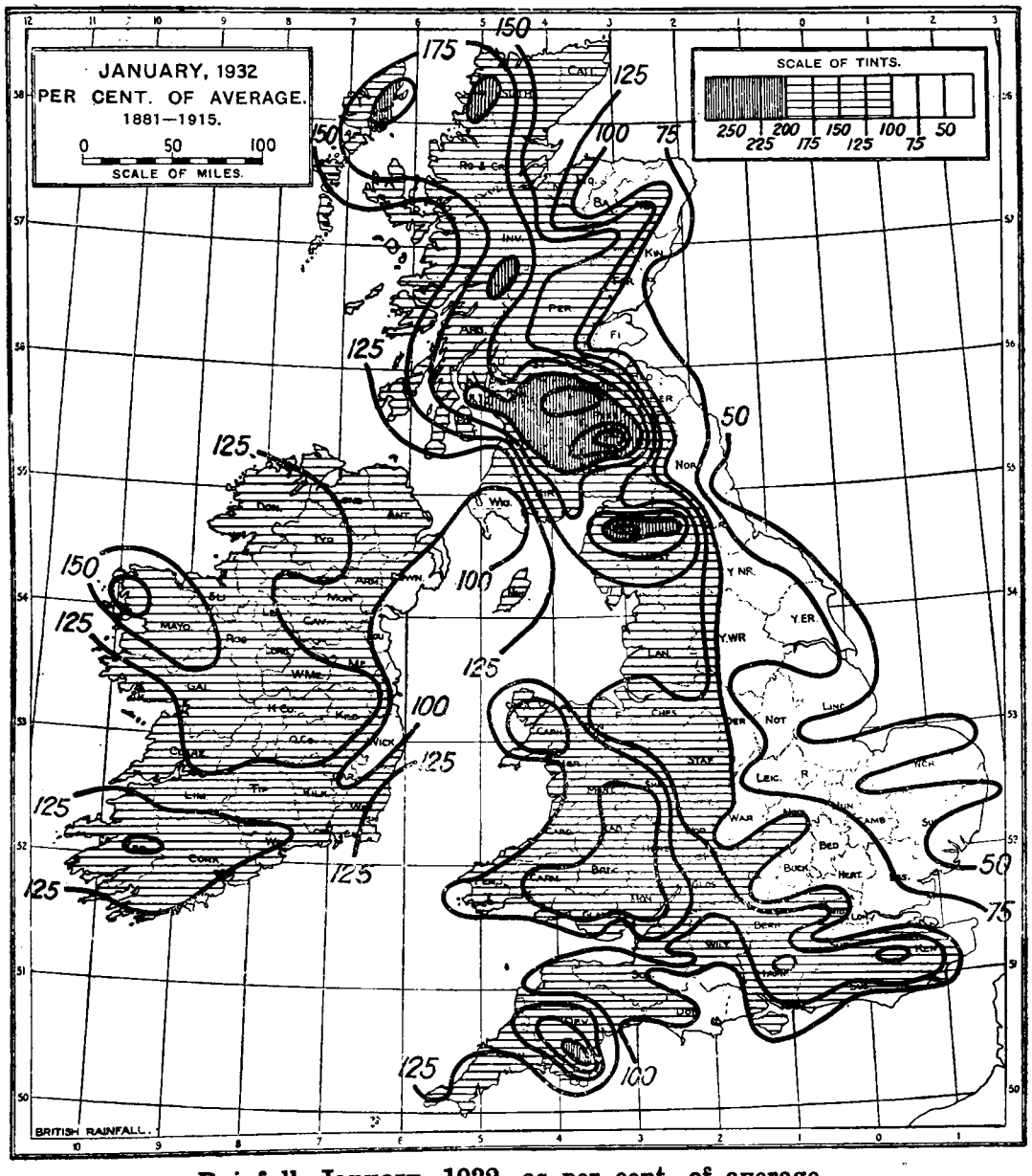


Rainfall, January, 1932.

unusually high barometer readings were recorded during the month, *e.g.* 1051 mb. at Sheffield and Meltham on the 26th. A number of stations recorded day temperatures exceeding 60°F., while the warmth of some of the nights was equally remarkable. 62°F. was observed at Killarney on the 3rd and 61°F. at Gordon Castle on the 18th, while new records for the minimum temperature during January

were obtained for the night of the 2nd to 3rd at Valentia and Greenwich, *viz.* 54°F. An unusually large number of heavy falls on rainfall days, qualifying for mention in Section 7, occurred from the 1st to 18th.

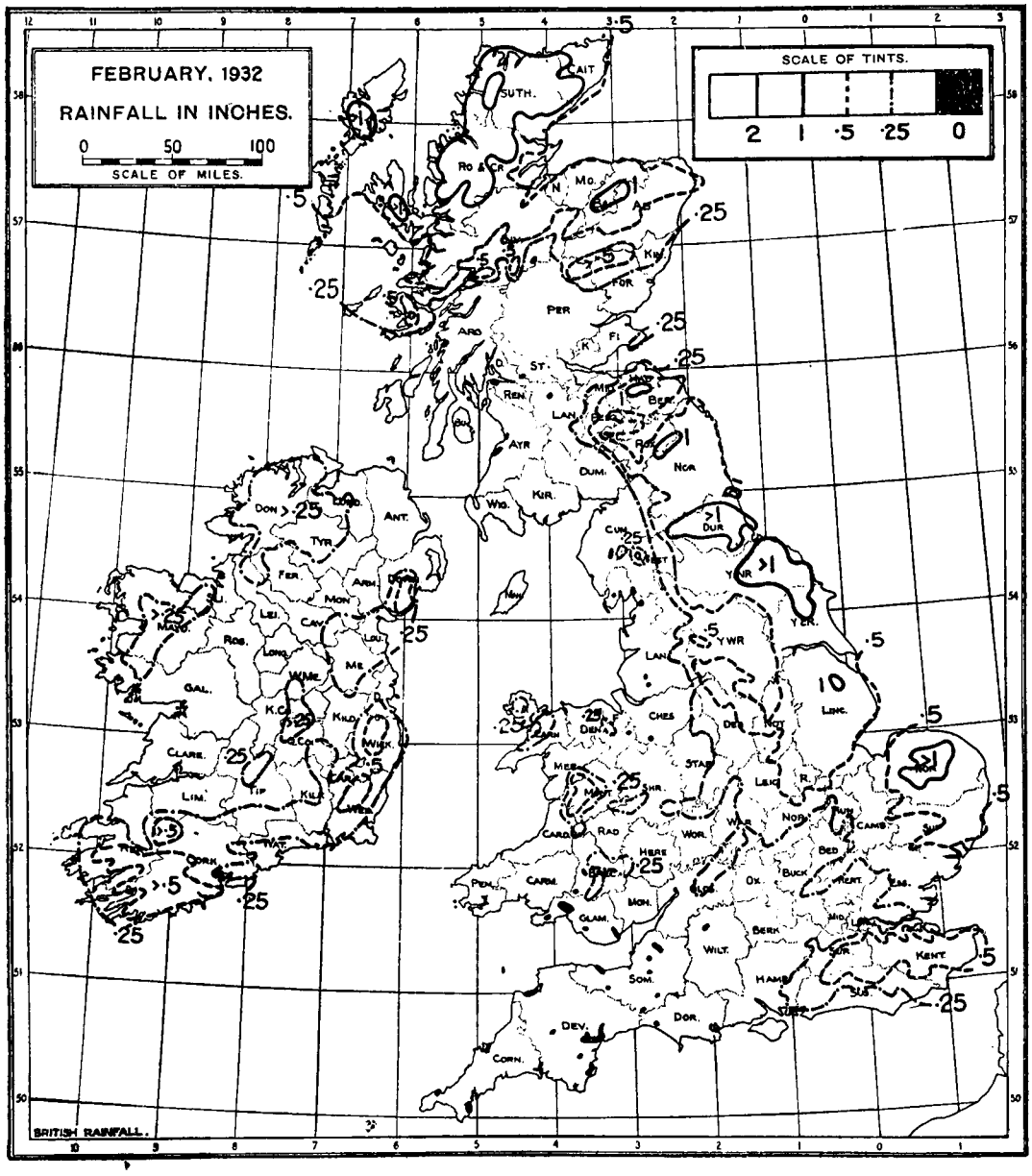
A striking feature of the map showing the distribution in actual inches is the contrast between the amount recorded along the east



Rainfall, January, 1932, as per cent. of average.

coast of England and that in Snowdonia, the English Lake District and the Western Highlands of Scotland. The percentage map also shows the contrast in the rainfall of the east coast of England, with less than half the average, and that in the west, more than 225 per cent. being recorded in parts of the south of Scotland and the English Lake District.

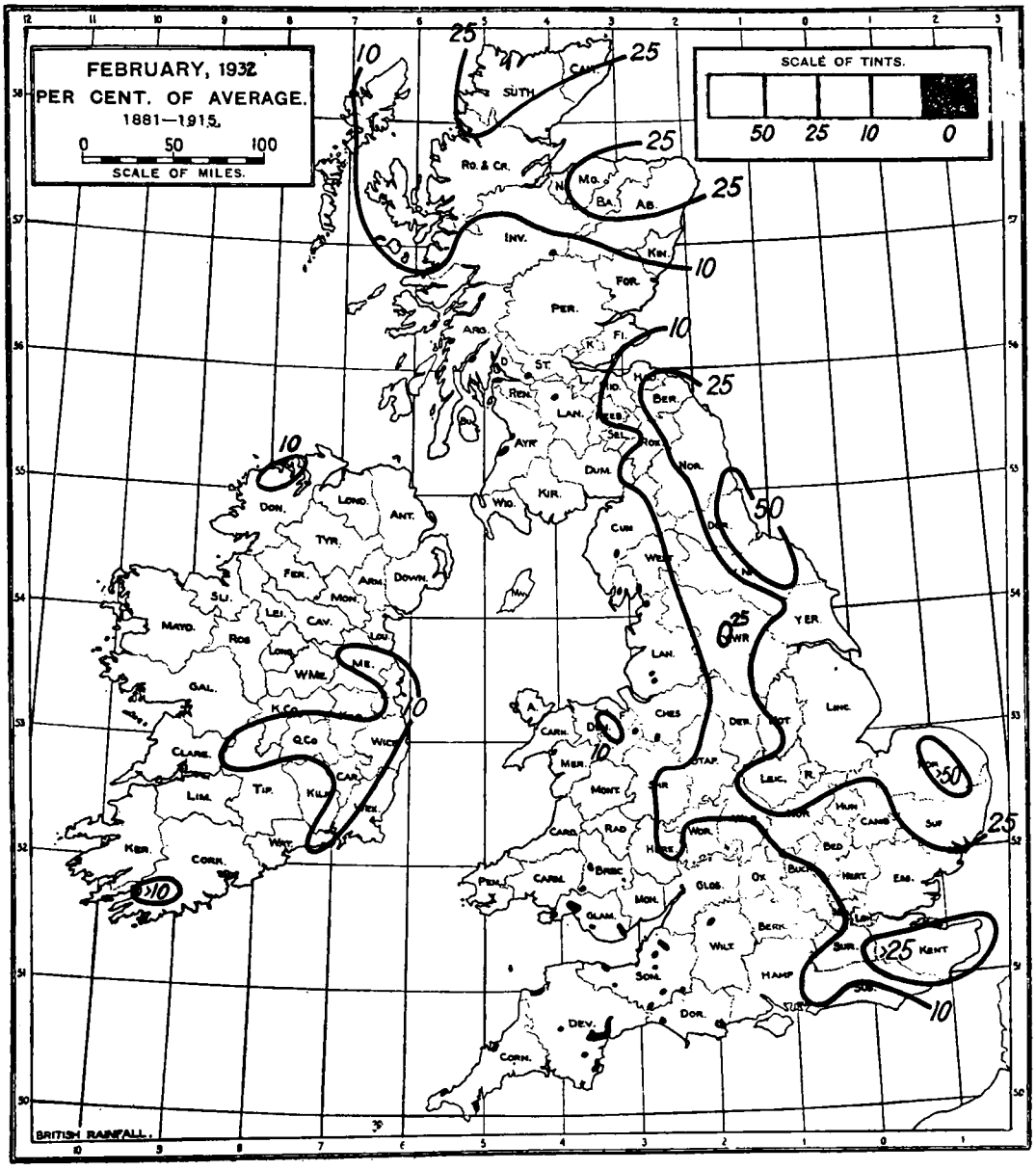
February.—An outstanding feature of the weather of the year was the little rainfall experienced in any part of the British Isles during the six weeks January 21st to March 3rd. (See Section 3). The mean pressure for the month was from 15 to 25 mb. above the average in all parts of the country. The pressure fell as low as 1014 mb. for a few hours only and in a very limited area over eastern



Rainfall, February, 1932.

England. Northerly to easterly winds were unusually persistent, conspicuously so in the south of England, where locally there was a complete absence of southerly winds. In Scotland temperature, as in January, was high for the season, but in the south of England and Ireland the month was cold.

The map of the rainfall in actual inches shows that no rain at all was recorded over small areas in parts of the west of England, Wales and Scotland, and that less than one-quarter of an inch fell over most of the western half of England and Wales and the southern half of Scotland. As much as two inches fell at only two stations in the north-west of Scotland. More than half of the British Isles

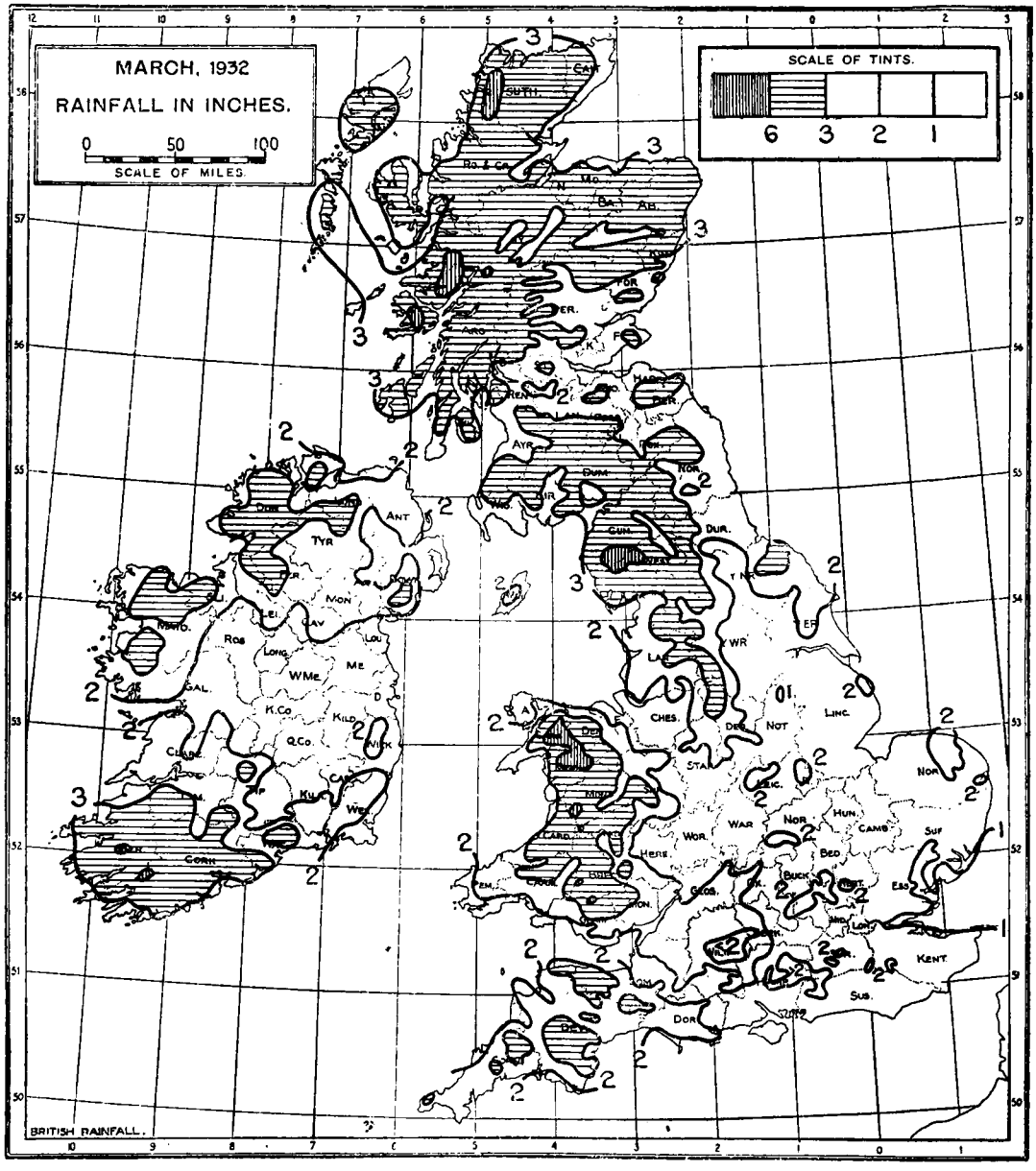


Rainfall, February, 1932, as per cent. of average.

received less than 10 per cent. of the average, while as much as half the average was recorded only in part of Norfolk and near Middlesbrough.

The general rainfall over the British Isles amounted to ·5 inch and the month ranks as the driest since comparable statistics became available in 1870.

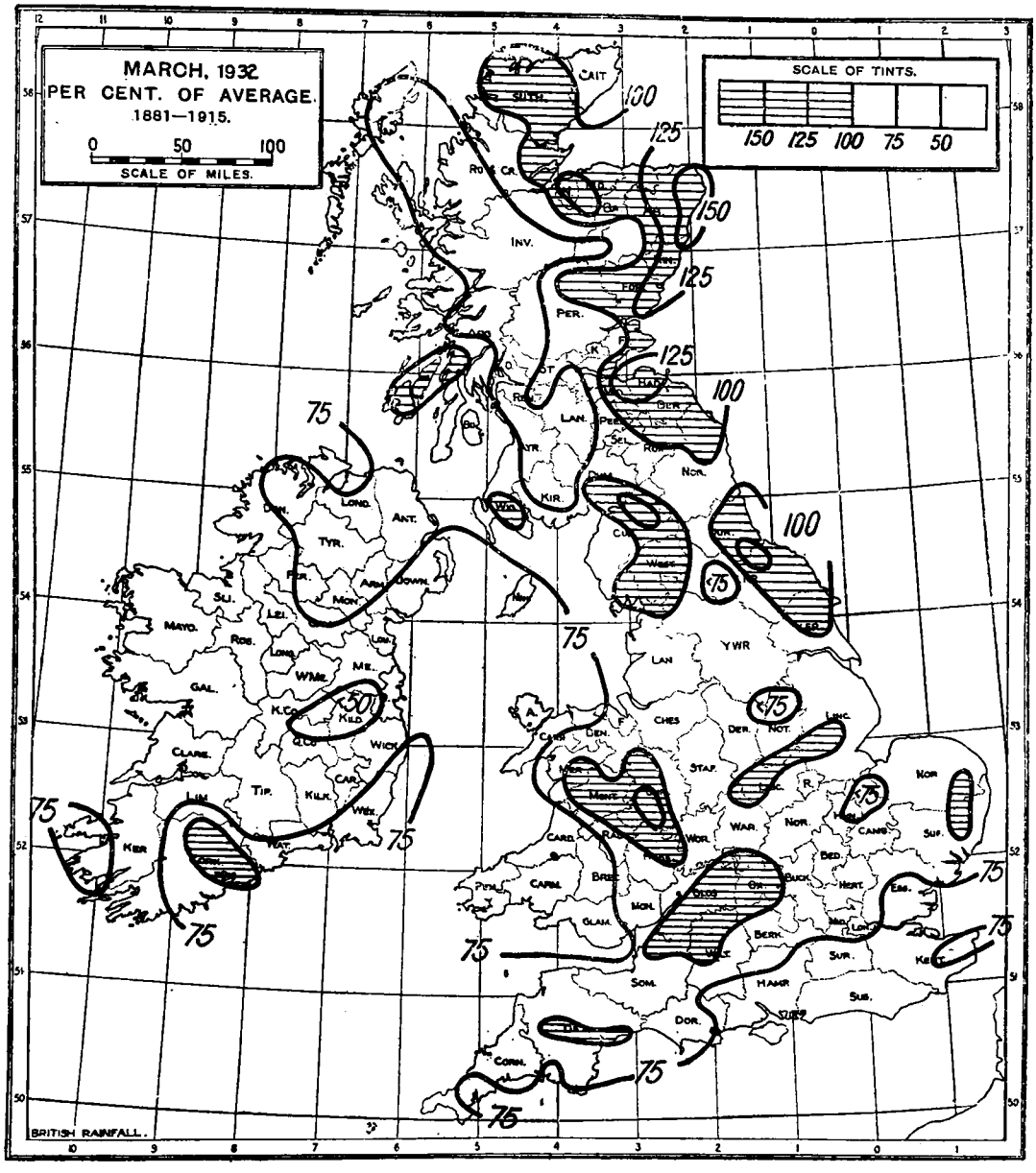
March.—The drought, which formed so remarkable a feature of the weather of February, continued with cool, easterly winds and bright periods during the opening days of March. In Scotland, the drought was broken on the 4th or 5th, but it did not terminate in the south until the 8th. Mean barometric pressure for the month was everywhere above the average and the difference from north to south



Rainfall, March, 1932.

was less than usual, being only about 4 mb. compared with an average difference of 7 mb. In northern England and Wales and in Scotland the month was on the whole dull, but in most other districts the sunshine totals slightly exceeded the average. In most places the rainfall during the last ten days accounted for the greater part of the month's total.

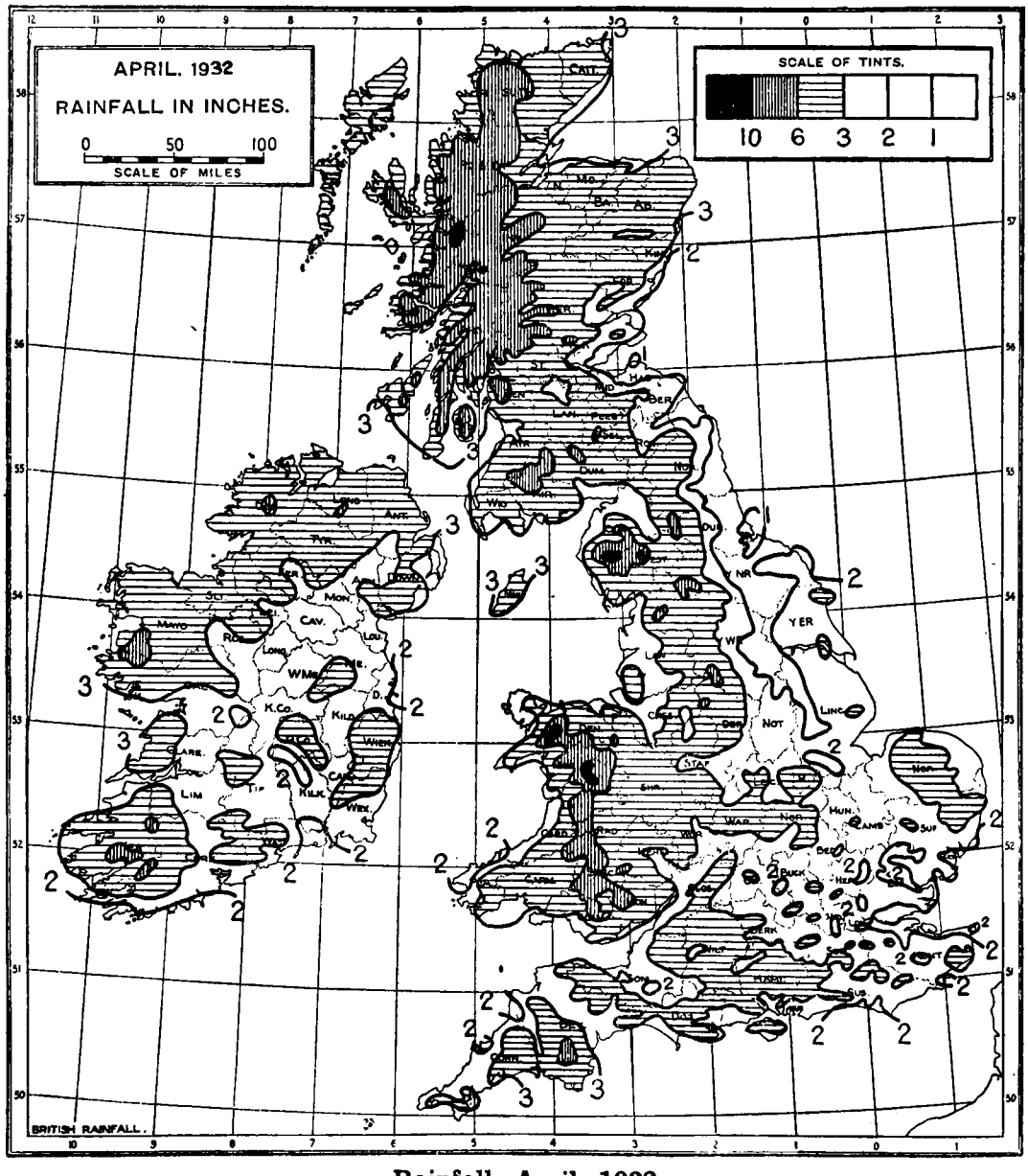
The rainfall in actual inches varied from less than one inch in the neighbourhood of the Thames Estuary to ten inches on Scafell and Snowdon. The total rainfall for the month exceeded 125 per cent. at Church Stretton (Wolstaston), Carlisle (Scaleby) and Middlesbrough. At Church Stretton the total rainfall for the four days 27th to 30th was 2·12 inches or 90 per cent. of the average for the



Rainfall, March, 1932, as per cent. of average.

month. In Scotland a large area in the west recorded about 60 per cent. while there was more than 150 per cent. in eastern Aberdeenshire. The large total recorded at Aberdeen Observatory was due mainly to the falls of the 22nd, 27th and 30th which gave 2·18 inches or 90 per cent. of the average for the month.

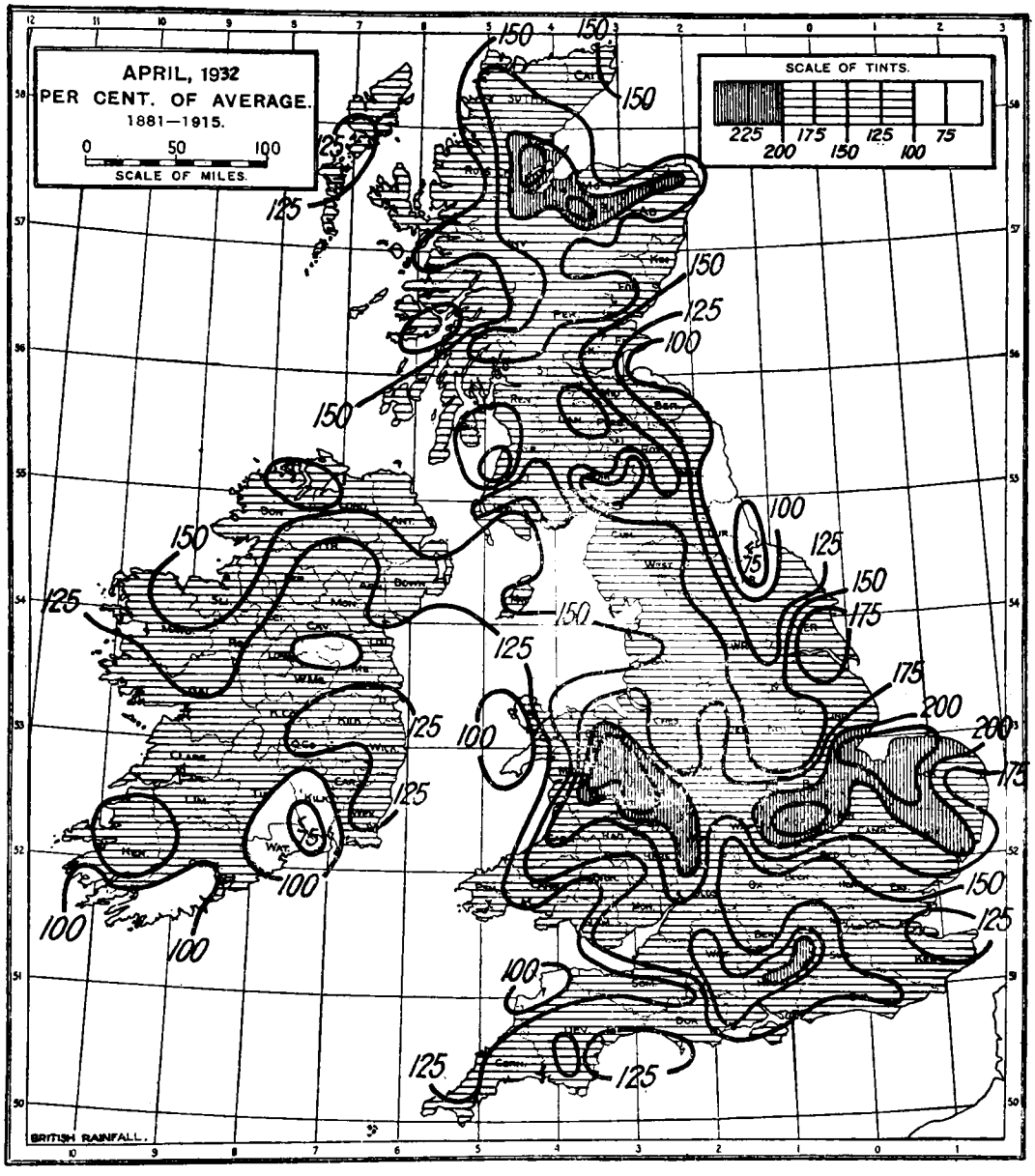
April.—Unsettled wet weather with cool days prevailed and in most places there was less than the average amount of sunshine. The mean pressure for the month was less than the average everywhere. Numerous depressions passed eastwards between Iceland and Norway or south-eastwards across Scotland. Westerly winds predominated, while easterly winds were less frequent than usual.



Rainfall, April, 1932.

In many places, however, the month was the coldest April since 1922. Precipitation occurred frequently during the month, but only one station reported a fall exceeding 2·5 inches on one day. The total rainfall for the month varied from rather less than one inch at the mouth of the River Tees to over ten inches in Snowdonia, near Lake Vyrnwy, the English Lake District, on Ben More in Mull, on Ben

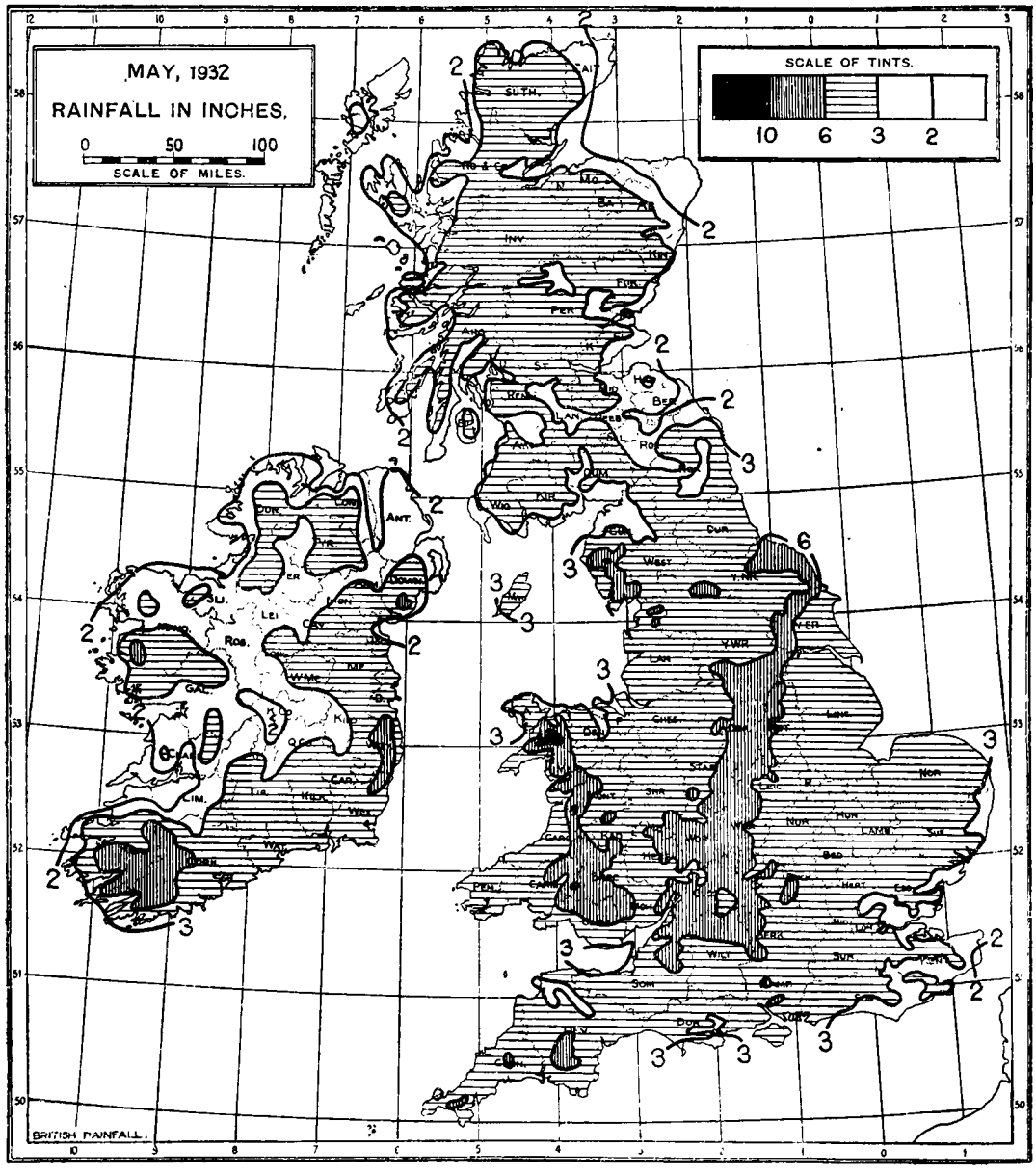
Nevis and at the head of the River Garry. The totals were less than the average along the north-east coast of England, in North Devon, the extreme north-west of Wales, near Waterford and in part of Co. Meath. More than twice the average was recorded in parts of Hampshire, Northamptonshire, the neighbourhood of the Wash, from Malvern to Denbigh and from Loch Ness as far north as Dornoch



Rainfall, April, 1932, as per cent. of average.

and as far west as Aberdeenshire. At Lake Vyrnwy, with 7·43 inches or 247 per cent. of the average, rain fell on 24 days, the total for the first ten days of the month being 4·43 inches. At Alness (Ardross Castle), with 5·75 inches or 237 per cent., rain fell on 28 days, the total for the 5th to 11th being 3·42 inches.

May was generally dull and unusually wet in parts of England and Wales owing to the frequency of cyclonic rains. Destructive floods occurred, especially in the Don Valley at Bentley, as a result of the heavy rain on the 21st and 22nd. The mean monthly pressure was everywhere below the average, the deficiency being small in the extreme north and amounting to about 5 mb. in the east of England.

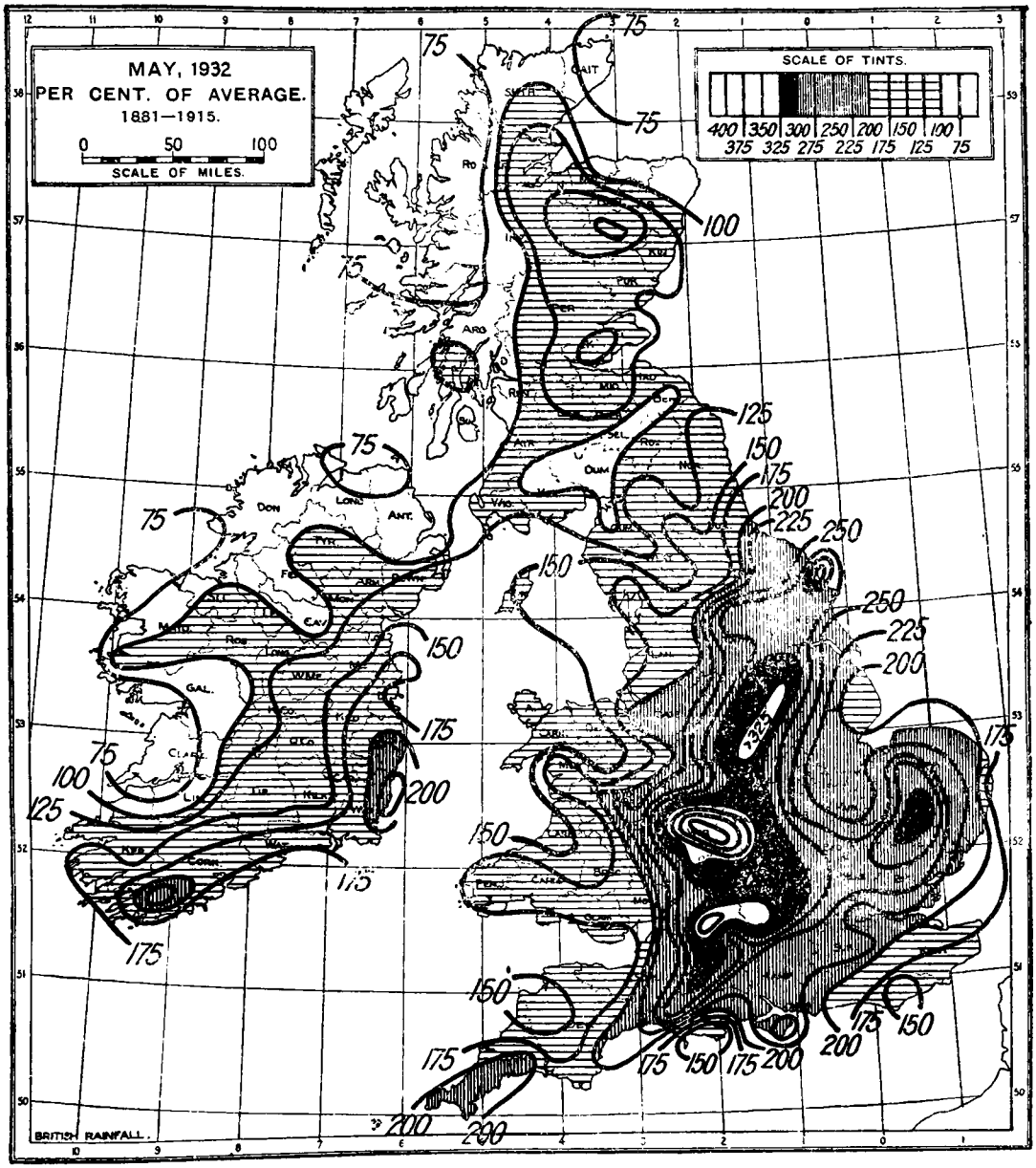


Rainfall, May, 1932.

Winds were mainly light to moderate while northerly winds were frequent in northern districts. Heavy falls, qualifying for mention in Section 7, are given for the 1st, 11th, 12th, 15th and 21st.

The distribution of the rainfall in actual inches is unusual in that the total rainfall over England and Wales exceeded that over

either Scotland or Ireland, that less than two inches was recorded over only a small part of England and Wales near Deal and that more than six inches occurred over a wide strip stretching from the Mendip Hills and White Horse Hills to the Yorkshire Wolds. The total rainfall was less than the average over the north-western half of both Scotland and Ireland, and exceeded twice the average over



Rainfall, May, 1932, as per cent. of average.

most of England. More than three times the average occurred over a large area stretching from Salisbury Plain to Flamborough Head while four times the average was recorded in part of Worcestershire. The general rainfall over England and Wales was as much as 5·0 inches.

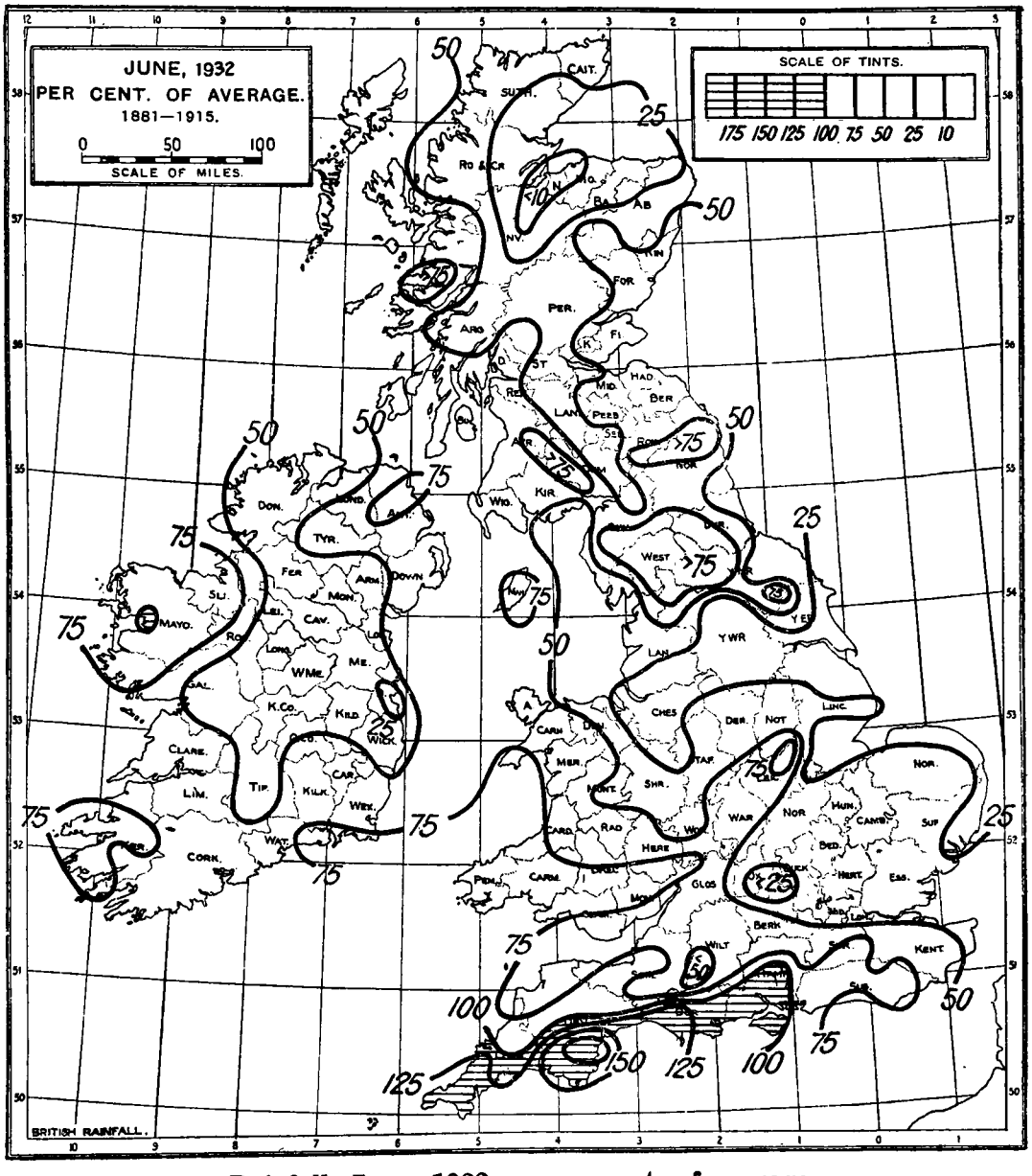
June was exceptionally dry. The month was sunny in the west, but, except locally in the south of Ireland, was not remarkable for any great warmth. Except at the beginning of the month and during the last six days, anticyclonic conditions predominated. Few depressions crossed the country during the month and the mean monthly pressure was everywhere from 1 mb. to 3 mb. above the average.

Rainfall, June, 1932.

Winds were mainly light and were frequently from between north and east.

The total rainfall during June was less than half an inch over a large part of East Anglia, in the neighbourhood of the river Humber stretching as far south as Peterborough and as far west as Hudders-

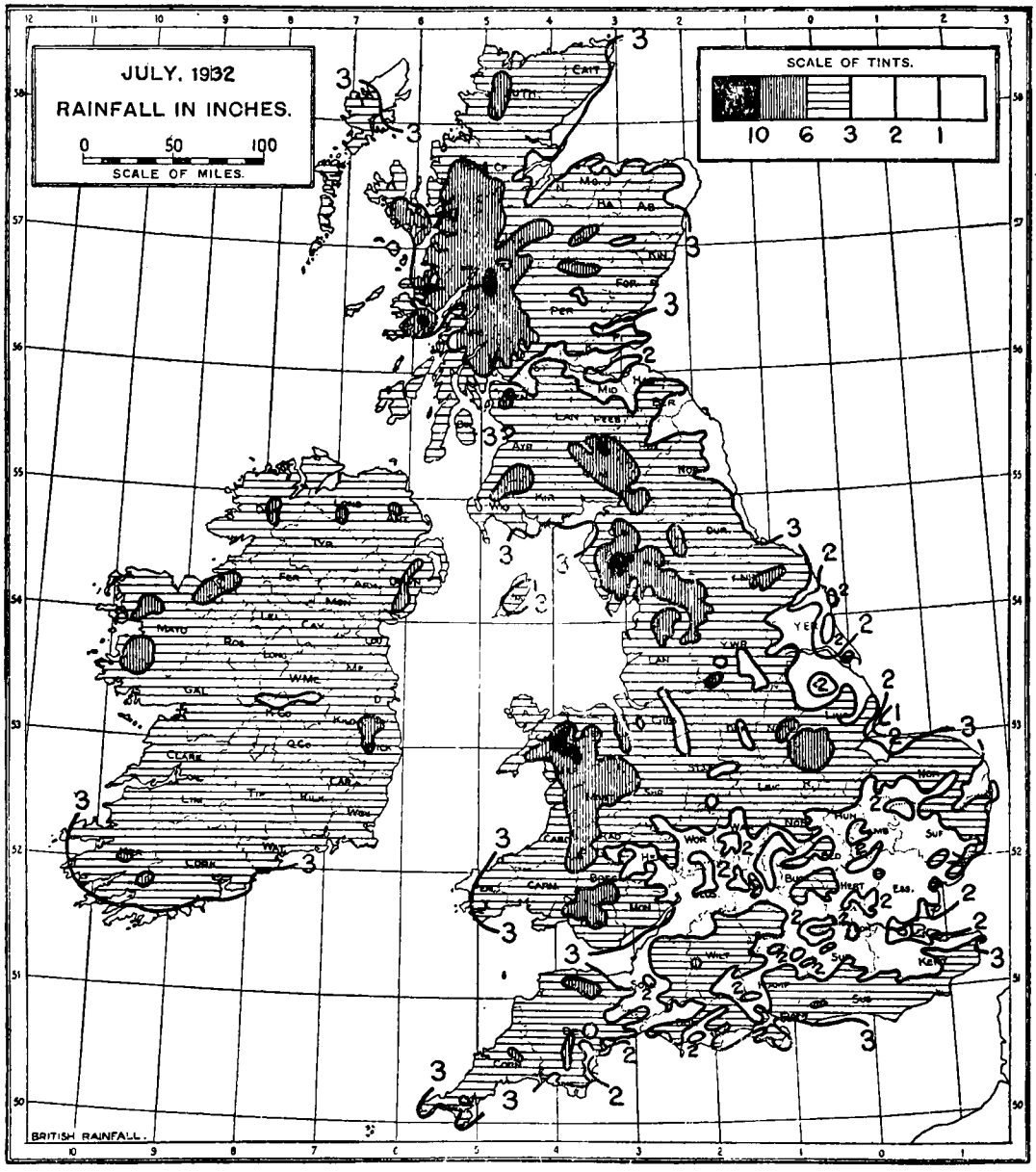
field, over a large area round the Moray Firth and near Dublin. As much as twenty inches was recorded on Snowdon. The rainfall was less than the average generally, apart from a large area along the south coast from Cornwall to the Isle of Wight and part of Mayo. Details of the heavy rain of June 30th in this region are given in Section 7. At Princetown Prison the falls for June 29th and 30th



Rainfall, June, 1932, as per cent. of average.

were 1·75 and 5·00 inches respectively. Less than 25 per cent. was recorded over a large area stretching across the Pennines from the Cheshire Plain to the mouth of the Humber, along the coast of Norfolk and Suffolk, near Oxford, over a large area surrounding the Moray Firth and near Dublin.

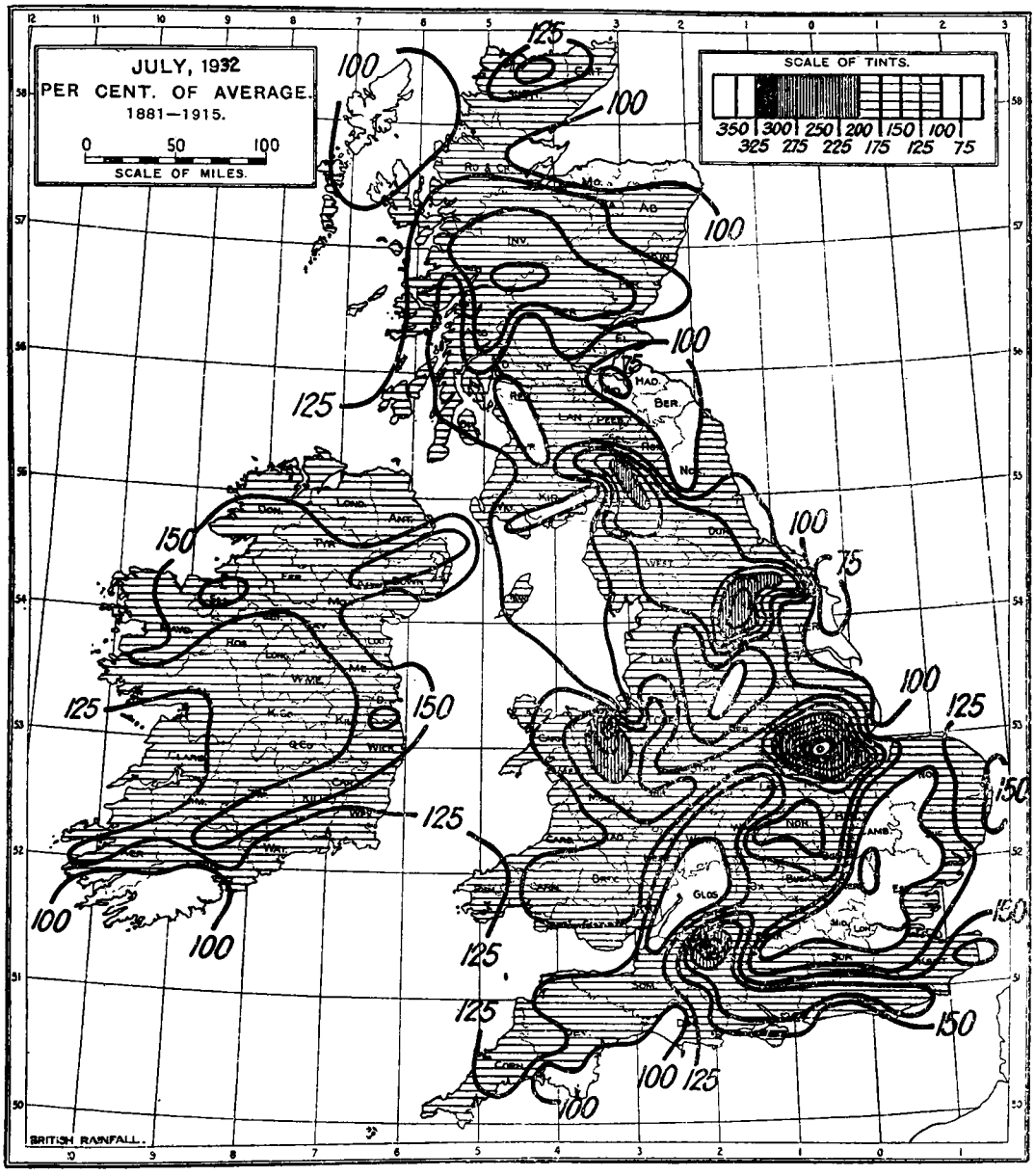
July was generally dull and wet with numerous thunderstorms. The weather was therefore very dissimilar from that of June but resembled that of July 1931. The mean pressure for the month was everywhere a few millibars below the average. Details of intense falls of rain experienced during July are given in Section 6 for eleven different days, while falls qualifying for mention in Section 7 occurred



Rainfall, July, 1932.

on eight days. The most striking rains were at Cranwell Aerodrome, in Lincolnshire, where 5·14 and 2·40 inches were recorded for the 11th and 13th (see Section 6). Owing to the local thunderstorm rains experienced during the month, the distribution was more irregular than usual. The total was 1·9 inches to the west of Bridg-

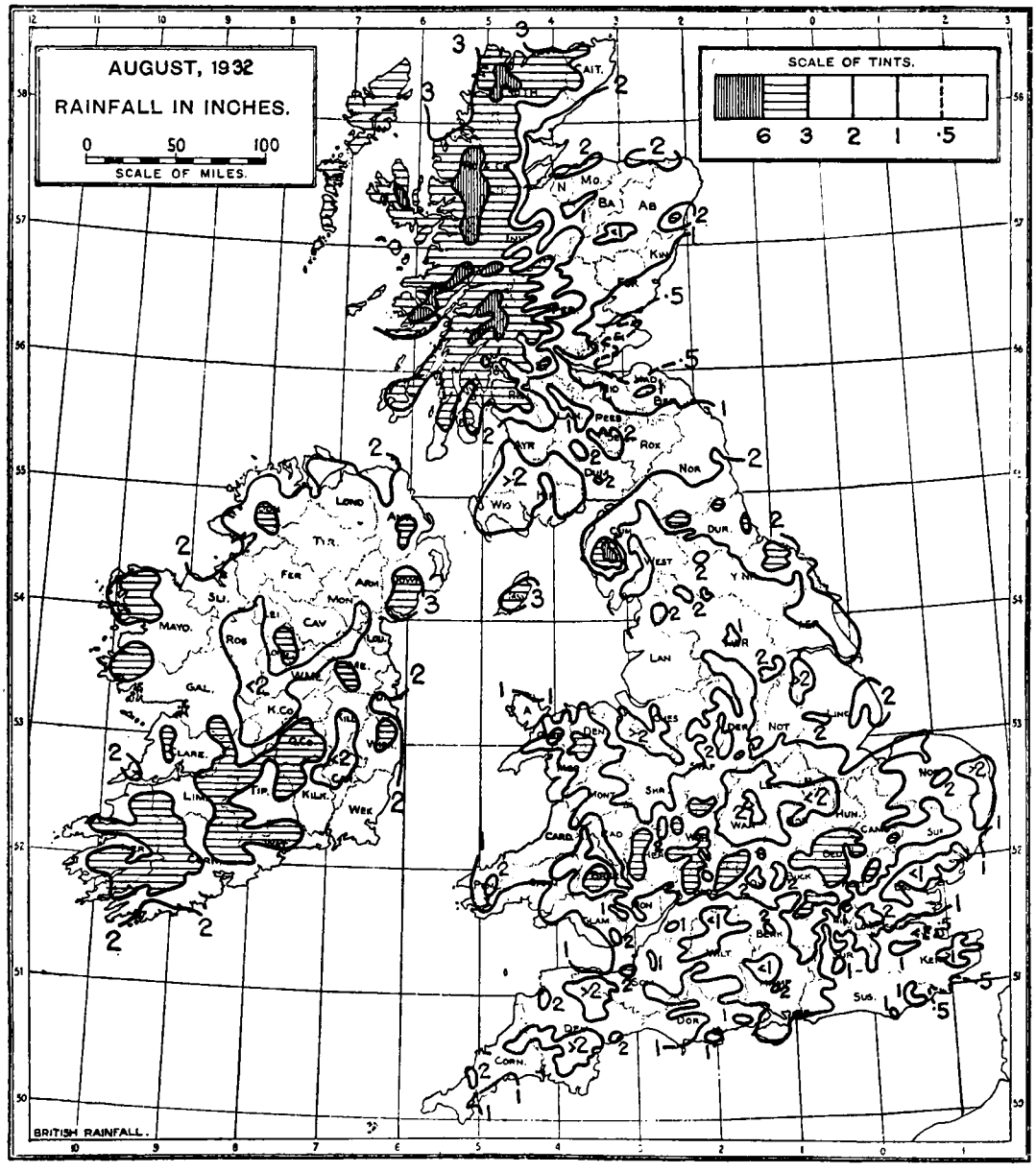
water and 6·6 inches 30 miles further west to the north of Frome; 9·9 inches at Cranwell Aerodrome and only 1·0 inch at Skegness, less than 40 miles further west; 1·9 inches at Romsey, to the north of Southampton, and 6·1 inches between Chichester and Midhurst some 30 miles further west. The distribution on the percentage map is even more striking. Less than 75 per cent. was recorded in part of



Rainfall, July, 1932, as per cent. of average.

Hertfordshire, the coast of Yorkshire and near Edinburgh. There was more than twice the average in parts of Wiltshire, Lincolnshire, Denbighshire, Yorkshire, Dumfriesshire and Co. Dublin. At Cranwell Aerodrome the total was 9·89 inches or 424 per cent. of the average.

August.—The outstanding feature of the weather of this month was its exceptional warmth. The rainfall was appreciably less than the average in most localities in spite of the thunderstorm rains experienced at the close of the unusually warm periods around the 11th and 19th. On the 19th the temperature exceeded 90°F. in many parts of southern England and the Midlands, while stations as far



Rainfall, August, 1932.

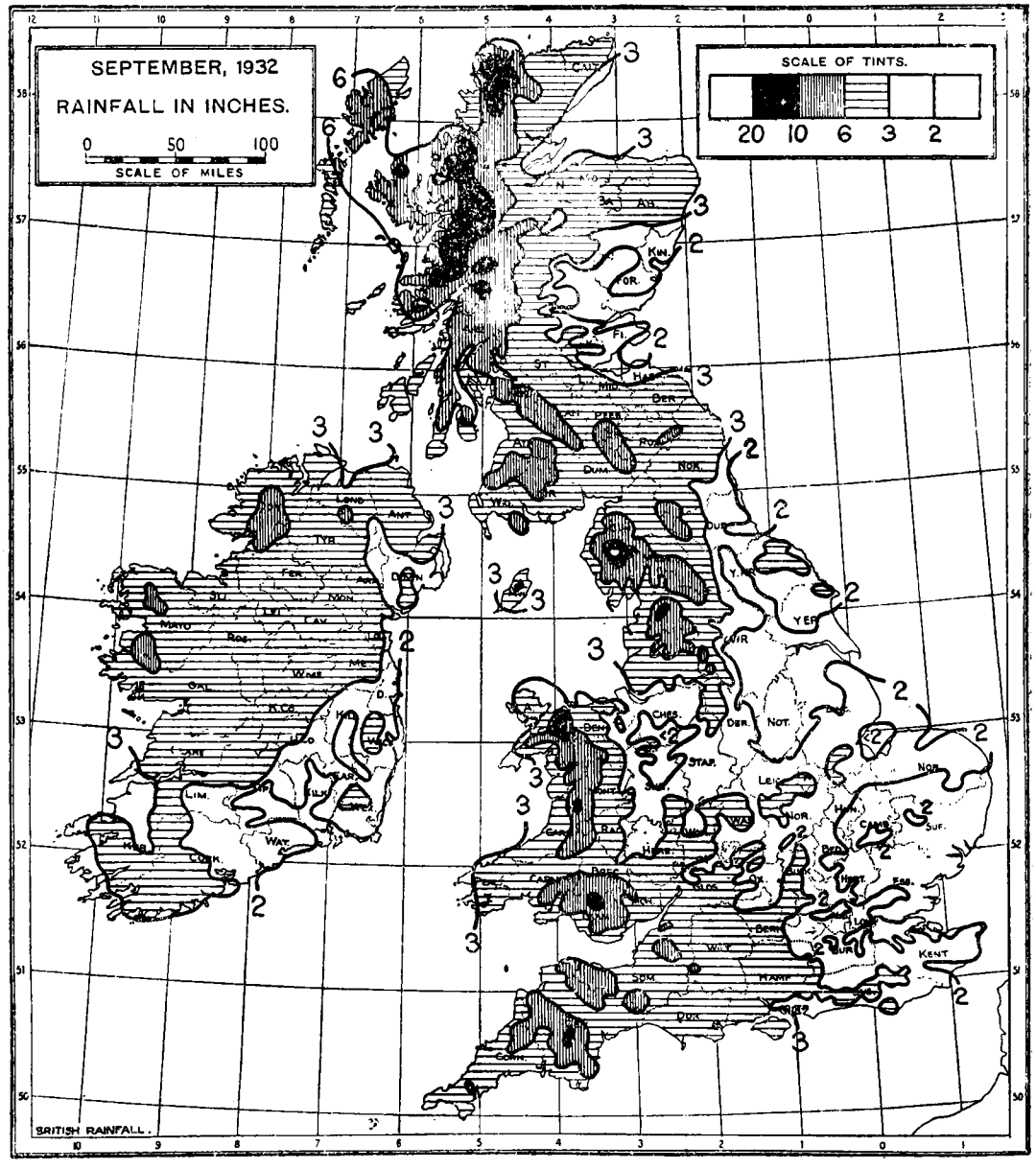
apart as Camden Square (London), Norwich and Oxford recorded the highest maximum in records covering more than 50 years in each case. The mean pressure was above the average in all districts, the excess ranging from 6·4 mb. at Malin Head and 6·2 mb. at Aberdeen to 3·0 mb. at Roche's Point. The total rainfall for the month was

less than half an inch in the Isle of Sheppey, near Dungeness and in the neighbourhood of the Firths of Forth and Tay. A striking contrast is that between the total at Wealdstone of ·8 inch and that at Mogerhanger Park, in Bedfordshire, some 35 miles due north, of 5·2 inches, due mainly to the heavy rains of the 20th and 21st of 1·95 and 1·51 inches respectively. Details of the intense rains of the

Rainfall, August, 1932, as per cent. of average.

1st, 12th to 14th, 20th and 21st are given in Section 6, and of the dry spell experienced along the south-east coast of England in Section 3. The percentage map shows that the totals were less than the average everywhere apart from a series of patches between Breconshire and Norfolk and in part of Co. Down and the Isle of Man. There was less than 10 per cent. in part of East Lothian.

September, in striking contrast with August, was mainly wet and very dull in southern and eastern England. The mean pressure was everywhere below the average, the deficiency ranging from 8 mb. at Lerwick and 7·5 mb. at Wick in the extreme north to 2·7 mb. at Valentia in south-west Ireland. During the first half of the month, winds were generally from between south and west-north-

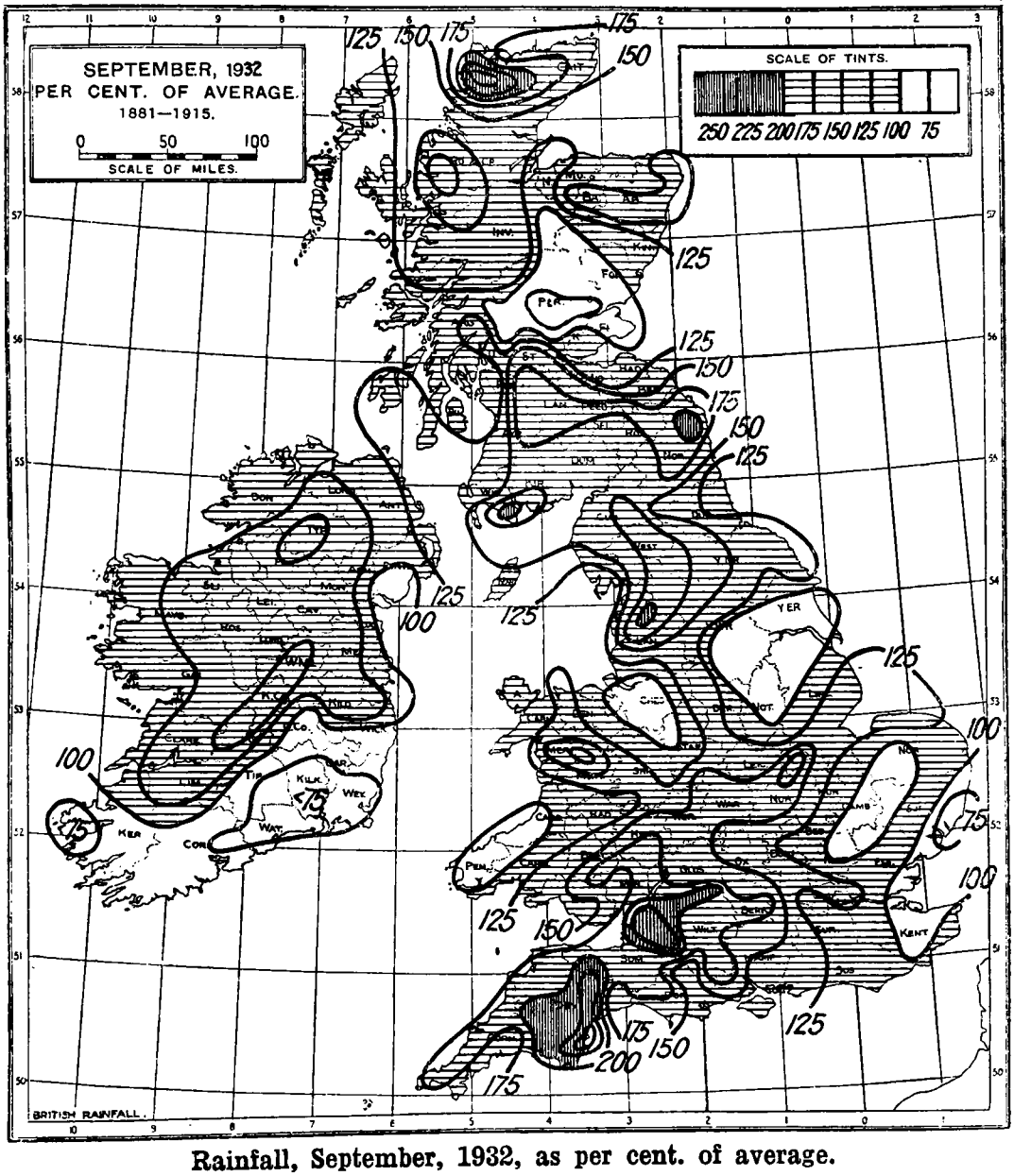


Rainfall, September, 1932.

west; while from the 18th to 28th, cold winds from some northerly point frequently prevailed.

The smallest totals recorded for the month were about 1·2 inches, that amount occurring in the neighbourhood of the Thames Estuary, in part of the east of Suffolk and in the neighbourhood of Rotherham.

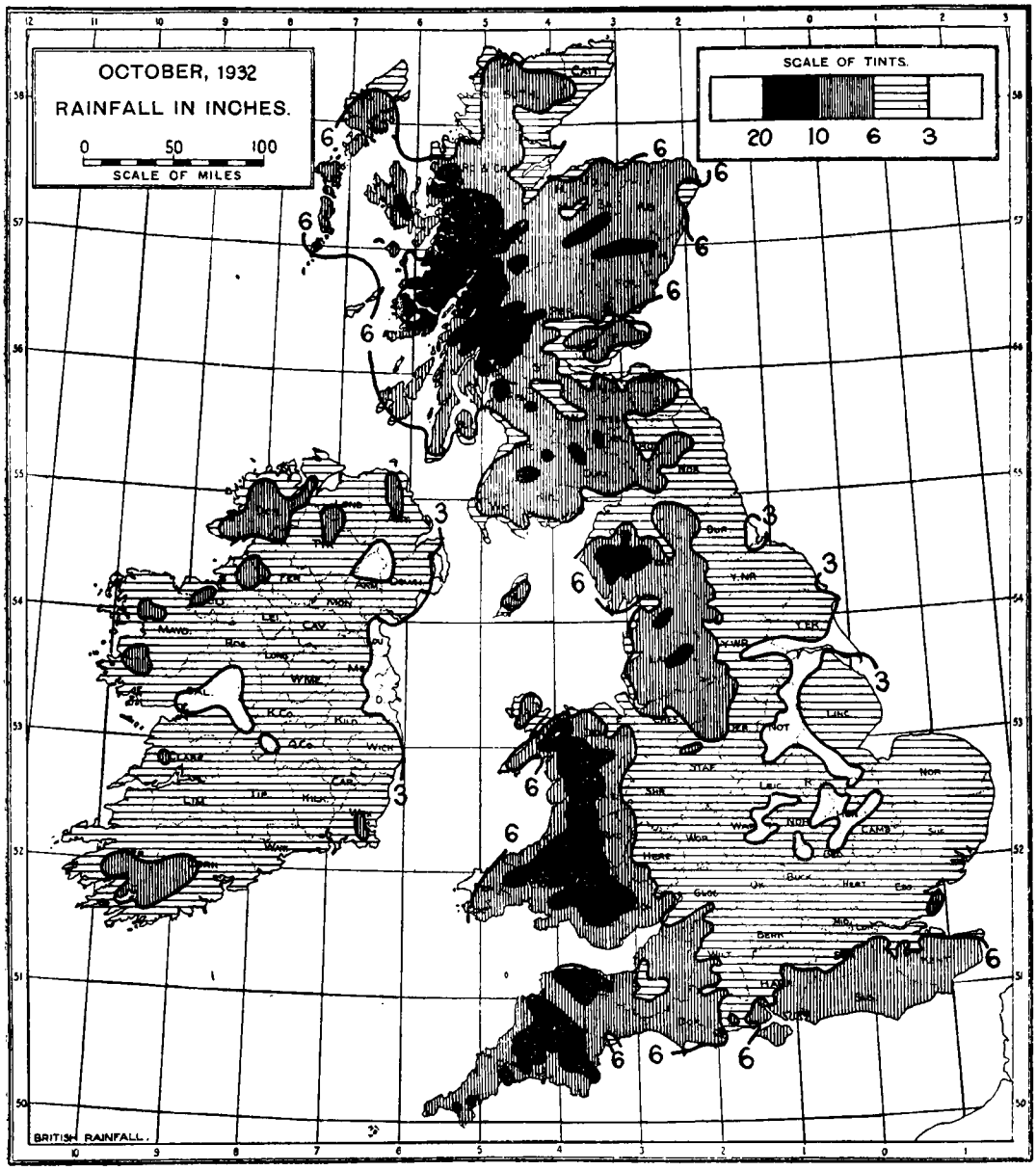
and Retford. The totals exceeded ten inches in parts of Dartmoor, Wales, the English Lake District and over large areas in the north-west of Scotland. Over 16 inches was recorded over small areas in the English Lake District and at the head of the River Garry. Stations in the north-west of Scotland recorded a rain-spell (see Section 4). The total rainfall was less than the average in the east of England,



Rainfall, September, 1932, as per cent. of average.

over the Cheshire Plain, the neighbourhood of the River Humber, in Perthshire and the south of Ireland. More than twice the average was recorded over Dartmoor and the Mendip Hills, near Preston and Wigtown, and in part of Sutherlandshire. At Teignmouth, the total of 5·21 inches or 262 per cent. was due mainly to the falls of the 7th, 22nd, 29th and 30th of ·85, 1·82, ·50 and ·75 inches respectively.

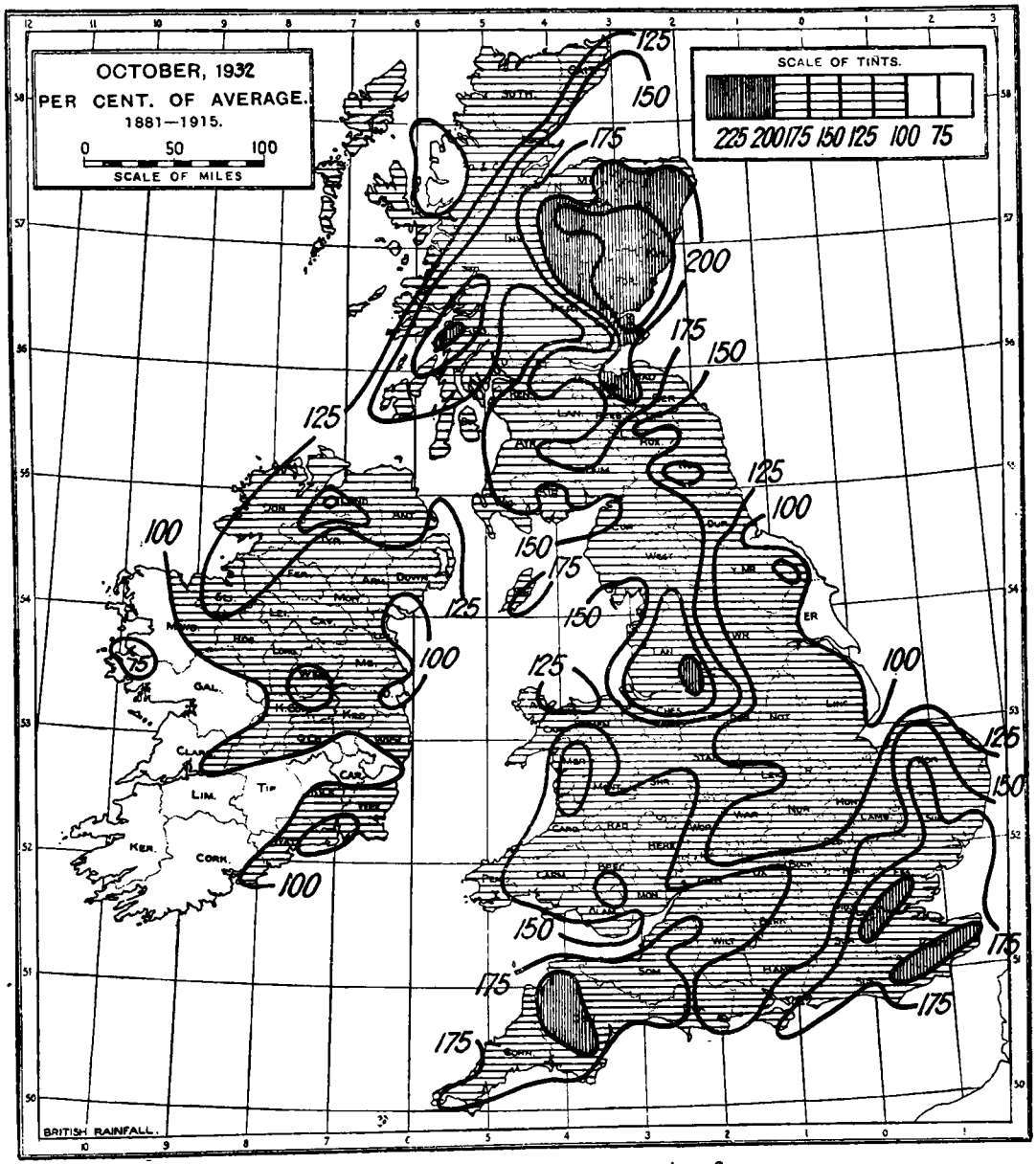
October.—Very unsettled conditions persisted throughout the month. The mean monthly pressure was everywhere below the average, markedly so in the north and east, the deficiency ranging from 10·2 mb. at Aberdeen to 3·7 mb. at Valentia Observatory, in Co. Kerry. In most districts winds from between west and north were unusually frequent. The mean temperature was below the



Rainfall, October, 1932.

average everywhere, the deficiency in Scotland amounting to nearly 2°F. Heavy falls of rain, qualifying for mention in Section 7, occurred on as many as eight days. Details of the wet spell, covering the last three weeks of October, are given in Section 4. The total rainfall for the month appears to have reached 2·5 inches in all parts of the

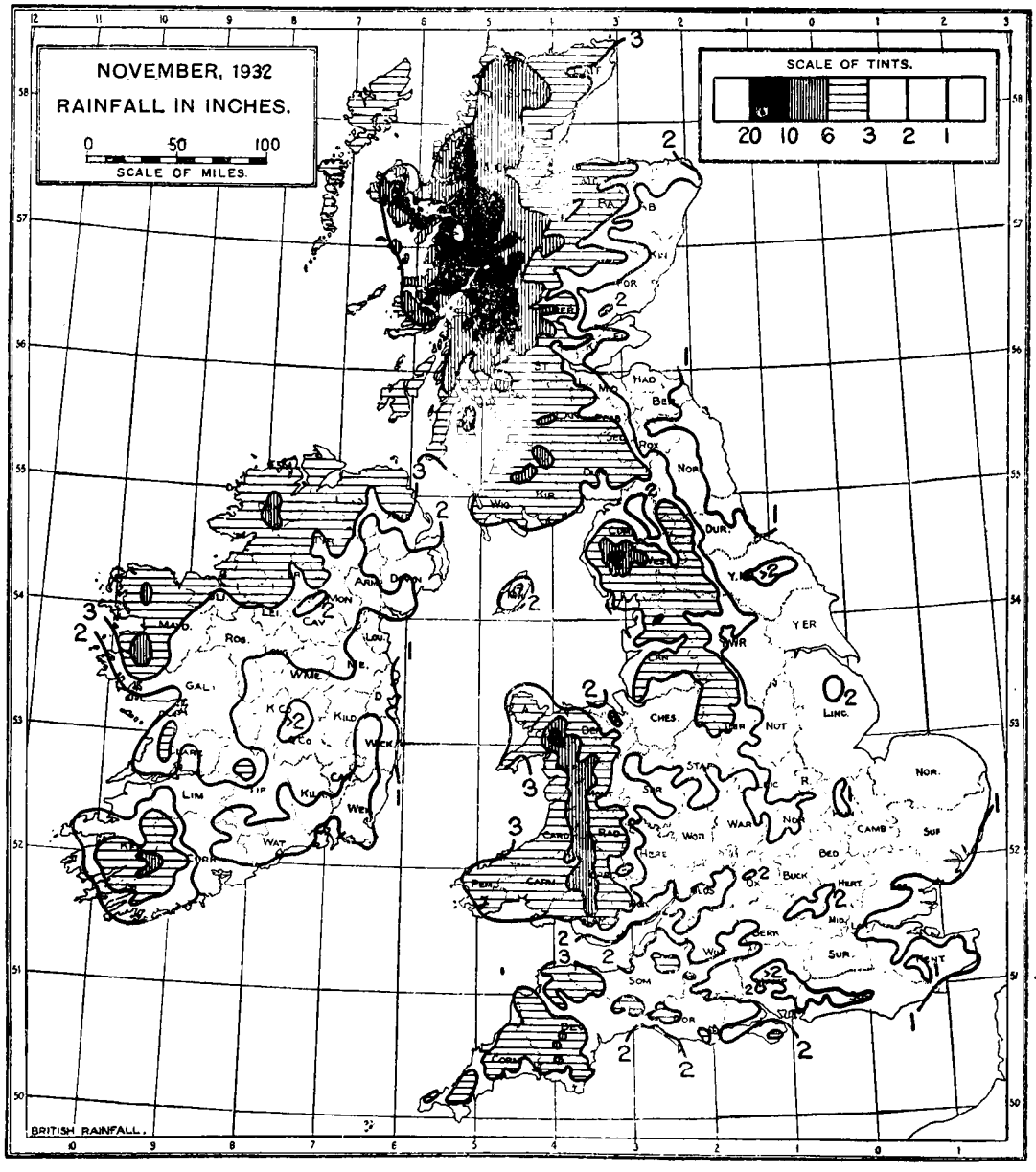
country. A remarkable feature of the rainfall map is the large area with more than six inches, more than that amount falling over the greater part of Wales and of Scotland, the north-west, south-west and along the south coast of England, as well as over the mountainous districts in the west of Ireland. At Buckland to the north of Dover, the total was 9·67 inches, with 3·70 inches for the 20th to 23rd and



Rainfall, October, 1932, as per cent. of average.

2·05 inches for the 27th to 30th. The total rainfall was less than the average along the east coast from Skegness to Middlesbrough, in part of Rosshire, near Dublin and over a large area in the south-west of Ireland. More than twice the average occurred in parts of the south-east of England, in Devon, near Manchester and Oban, and over a large area stretching from Edinburgh to Morayshire.

November was noteworthy for a deficiency of sunshine especially in England. The mean pressure for the month was everywhere above the average, the excess varying from 4·8 mb. at Yarmouth to 2·7 mb. at Lerwick. This was mainly due to the anticyclonic conditions which prevailed during most of the first three weeks and gave dry spells at certain stations in the south-east of England, and more



Rainfall, November, 1932.

strikingly in the north of Ireland, the south-west of Scotland and north-west of England (see Section 3). In Scotland the mean temperature for the month differed little from the average, while in England and Ireland it was slightly above.

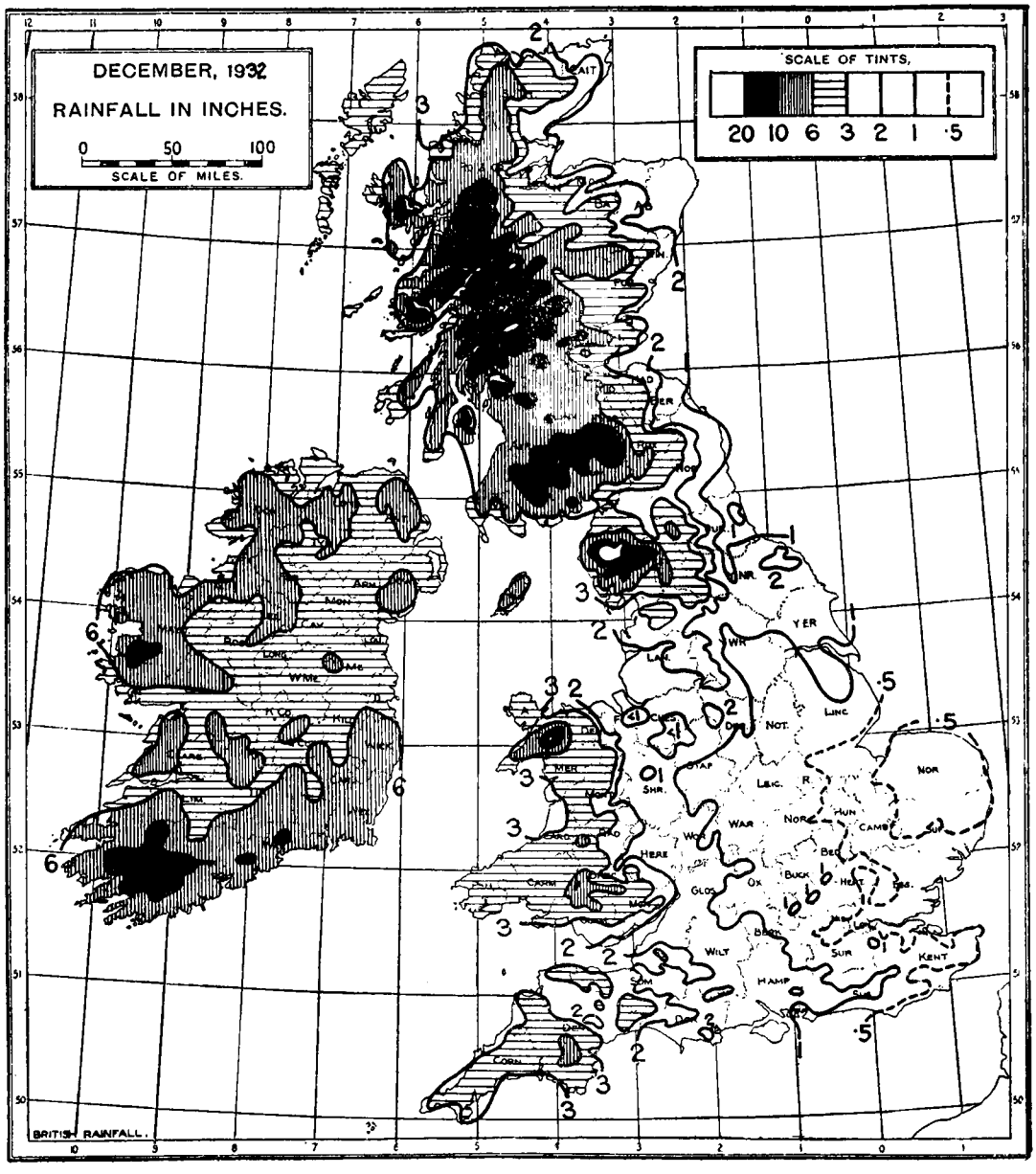
The total rainfall was less than one inch in the neighbourhood of the Thames Estuary, near Peterborough, along the north-east

coast of England and near Dublin. The total exceeded 10 inches in Snowdonia, part of the English Lake District and over a large area in the Western Highlands of Scotland, while more than 20 inches fell at the head of the River Garry. At Kinlochquoich more than one inch fell on as many as ten days. Less than the average was recorded in the south-east and along the north-east coast of England,

Rainfall, November, 1932, as per cent. of average.

in the south-east of Scotland and over a large part of the southern half of Ireland. Falls of more than the average were confined to the neighbourhood of Chester and Londonderry and a large area including much of the western half of Scotland. The total at Loch Ness (Foyers) was 6·70 inches or 172 per cent. of the average, of which 3·43 inches fell during the three days, the 1st to 3rd.

December.—One of the most striking features of the weather was the extreme mildness after the 12th. Day maxima of 60°F. were recorded on the 16th, 17th, and 22nd, while the nights were also warm, the minimum for the 18th at Tynemouth being 54°F. The mean pressure for the month was everywhere above the average, the excess varying from 7·3 mb. at Yarmouth to 1·1 mb. at Valentia

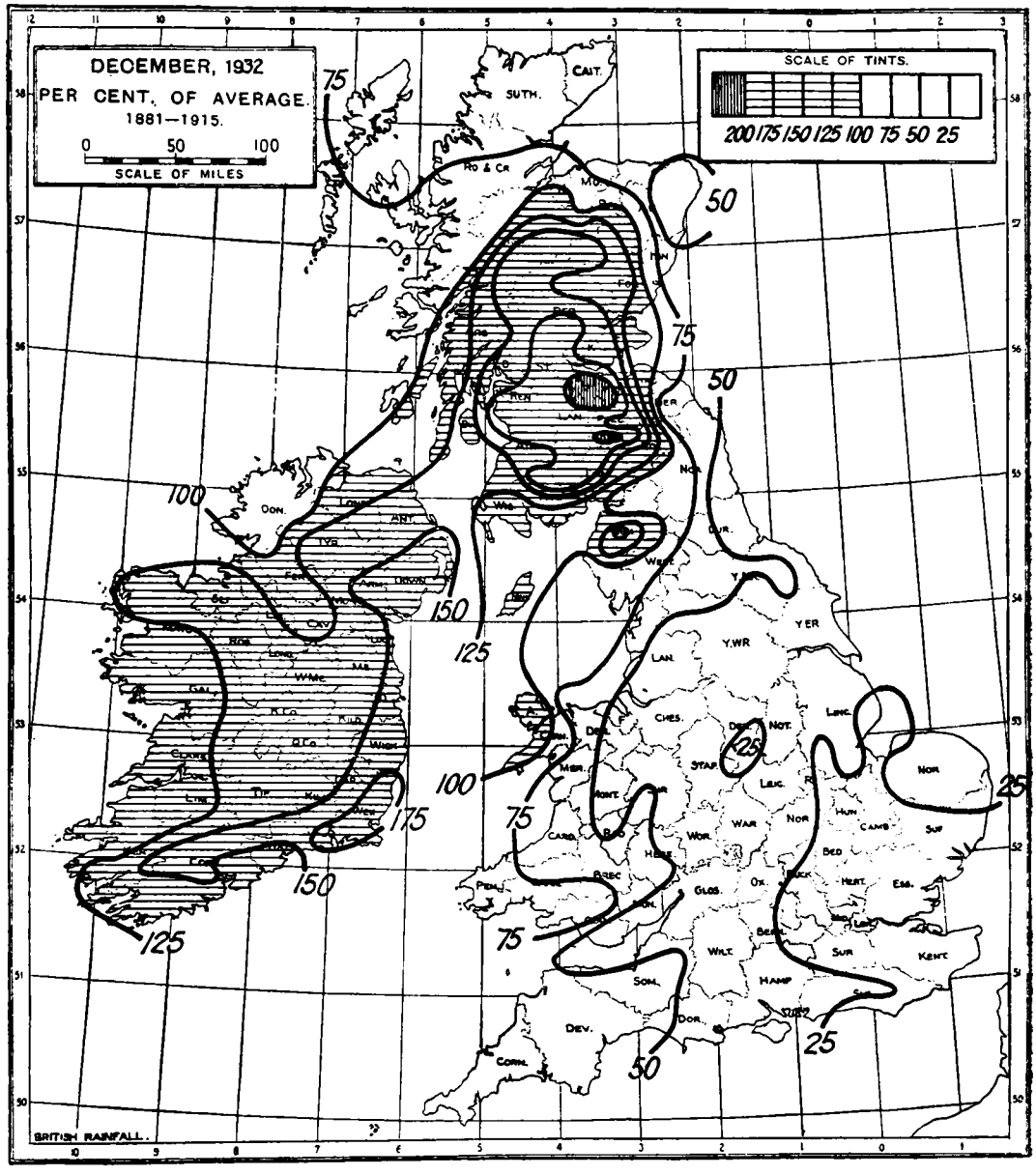


Rainfall, December, 1932.

in the south-west of Ireland. Widespread southerly or south-westerly gales occurred in the west and north during the latter half of the month.

The total rainfall over a large area in the south-eastern half of England was less than one inch, while less than half-an-inch was recorded from the Thames Estuary to the Wash and along coastal

strips of Kent. At Sheerness the total rainfall for the month was ·13 inch (the total for November and December being only ·98 inch). Details of the dry spells recorded in the south-east of England are given in Section 3 and of the rain spell recorded at Seaforde in Co. Down in Section 4. The total rainfall for the month exceeded 20 inches on Snowdon, in the English Lake District, to the north of



Rainfall, December, 1932, as per cent. of average.

Lake Katrine, on Ben Alder and on Ben Nevis. The main features of the percentage map were (a) the broad belt across Ireland and the southern half of Scotland, including Anglesey, the Isle of Man and the English Lake District with more than the average and (b) the large area over the south-east and Midlands of England with appreciably less than half the average.

Table XX.—*Monthly Rainfall at* 400 *Stations in the British Isles during* 1932.

ENGLAND

County and River Division.		Station.	Jan.	Feb.	Mar.	Apl.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.
London	2	St. Pancras (Camden Square)	1·60	·27	1·52	2·28	3·76	·73	1·93	1·57	2·56	5·25	1·38	·47	23·29
Surrey	6	Haslemere (U.D.C. Depôt)	4·86	·49	2·17	3·85	4·81	2·16	3·71	1·07	3·26	7·04	1·91	1·22	36·55
,,	6	Woking (The Green)	1·83	·21	1·29	2·82	4·16	1·09	3·02	·83	2·18	4·89	1·24	·49	24·05
Kent	1	Tenterden (Ashenden)	3·13	·53	1·52	2·32	2·73	1·39	3·31	·40	1·85	7·32	1·09	·42	26·01
,,	1	Folkestone (Cherry Gdns.)	2·19	·64	1·49	3·67	3·20	1·37	4·70	·70	2·53	8·96	1·40	·78	31·63
,,	2	St. Peters (Hildersham House)	1·54	·64	1·41	2·29	2·92	·81	3·67	·87	2·75	6·47	1·14	·56	25·07
,,	3	Teynham (New Gardens)	1·83	·45	1·11	1·94	3·25	·65	2·05	·49	1·64	5·74	1·09	·31	20·55
,,	4	Strood Waterworks	1·66	·34	1·09	1·89	2·60	·56	2·12	·69	1·33	5·36	·75	·29	18·68
,,	5	Westerham (Town)	2·70	·73	1·81	2·78	4·82	1·08	2·68	1·06	2·54	6·96	1·54	·90	29·00
Sussex	1	Bognor Regis (Waterloo Square)	2·52	·16	1·36	2·38	3·94	1·57	3·07	·72	2·72	5·93	1·59	1·36	27·32
,,	3	Worthing (Beech House Park)	2·35	·04	1·10	1·64	2·38	1·45	3·08	·42	2·85	6·49	1·41	·70	23·91
,,	4	Balcombe (The Gables)	3·82	1·84	2·00	3·47	3·69	2·05	4·19	·87	2·78	8·35	1·93	·99	35·98
,,	5	Eastbourne (Wilmington Sq.)	2·40	·20	1·48	2·66	2·28	1·69	4·00	·86	2·74	7·84	1·39	·39	27·93
,,	5	St. Leonards (Gensing Gdns.)	2·62	·36	1·76	2·71	2·73	1·46	3·68	·91	2·59	8·44	1·54	·58	29·38
,,	7	Crowborough (Uckfield Lodge)	4·14	·69	1·91	2·99	3·15	1·59	3·68	·56	3·51	8·83	2·09	·80	33·94
Hampshire	1	Totland Bay (Aston House)	2·48	·05	1·39	2·93	3·99	2·04	3·00	·94	3·08	6·11	1·90	1·15	29·06
,,	4	Stockbridge (Houghton Lodge)	3·35	·17	1·74	3·35	4·97	1·86	2·93	1·01	4·14	5·15	2·00	1·43	32·10
,,	5	Bishops Waltham (Park Ho.)	3·13	·14	1·65	2·98	5·08	1·89	4·03	1·31	3·46	6·07	1·69	1·55	32·98
,,	8	Sherborne St. John	3·21	·11	1·88	3·10	4·55	1·55	2·54	1·13	3·16	4·11	1·58	·88	27·80
Berkshire	4	Bucklebury Place	1·78	·16	1·50	2·55	4·88	1·19	2·14	2·07	3·28	4·09	1·66	·86	26·16
,,	5	Upton (Manor House)	1·68	·08	1·35	2·17	5·69	·83	3·67	1·52	3·12	3·51	1·34	·74	25·70
Hertfordshire	2	St. Albans (County Museum)	1·87	·23	2·07	2·46	3·58	1·05	2·12	2·00	1·63	4·36	1·70	·60	23·67
,,	3	Royston (Therfield Rectory)	1·36	·34	1·65	2·38	5·22	·90	1·85	2·79	1·64	4·49	1·69	·46	24·77
Buckinghamshire	3	Slough (Upton)	2·37	·09	1·38	2·23	4·47	·87	1·64	1·17	1·80	4·54	1·65	·52	22·73
,,	3	Hampden House	2·89	·32	2·16	2·61	4·58	1·00	2·61	3·83	2·75	4·88	2·21	·71	30·55
,,	5	Wolverton (St. George's Vic.)	1·35	·22	1·41	2·84	4·48	1·13	3·23	2·87	2·90	2·86	1·46	·61	25·36
Oxfordshire	2	Wootton Rectory	1·71	·16	1·76	2·52	5·60	1·12	1·91	2·29	2·92	3·86	1·53	·76	26·14
Northamptonshire	1	Naseby Reservoir	1·41	·41	1·43	3·20	5·50	·64	4·49	2·33	3·06	3·36	2·40	·77	29·00
,,	4	Wellingborough (Swanspool)	1·45	·25	1·77	3·26	4·39	·57	3·01	2·50	2·88	2·82	1·71	·51	25·12
Huntingdonshire	1	St. Ives (Slepe House)	·66	·25	1·34	2·71	3·70	·61	1·55	2·63	1·47	2·70	1·13	·35	19·10
Bedfordshire	3	Shefford Council School	1·25	·23	1·98	2·29	4·77	·66	2·73	4·00	2·39	4·23	1·51	·49	26·53
Cambridgeshire	2	Littleport (Highfield House)	·56	·28	1·90	2·66	4·55	·67	1·80	2·37	1·25	3·11	1·13	·44	20·72

Table XX.—(*con.*) *Monthly Rainfall*—**ENGLAND**—(*con.*).

County and River		Station.	Jan.	Feb.	Mar.	Apl.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.
Cambridgeshire.	3	Parson Drove (Clows Cross).....	·83	·33	1·06	2·21	3·52	·78	2·58	2·79	2·43	2·99	1·24	·40	21·16
Essex	2	Leigh (Brick House).....	·68	·20	1·13	1·72	2·81	·76	1·52	1·14	1·40	5·33	·61	·21	17·51
,, ...	2	North Weald (Canes).....	1·65	·17	1·49	2·38	3·39	·61	2·26	1·10	1·88	4·52	1·14	·46	21·05
,, ...	3	Bradwell-on-Sea (Bradwell Hall)...	·72	·45	1·01	2·03	3·40	·50	2·26	1·62	1·53	5·40	·86	·24	20·02
,, ...	4	Gt. Bardfield (South Lodge).....	·99	·36	1·27	2·08	4·18	·61	2·13	1·34	1·47	4·96	1·52	·39	21·30
Suffolk	1	Hartest (Chadacre Institute)	·90	·54	1·45	2·50	4·04	·61	2·38	2·15	1·39	4·58	1·62	·48	22·64
,, ...	2	Ipswich (Copdock).....	1·19	·40	1·09	2·00	3·81	·49	2·76	1·17	1·40	4·88	1·22	·39	20·80
,, ...	3	Orford (The Gables).....	1·17	·53	1·10	2·55	3·37	·39	3·88	1·03	1·50	4·23	1·71	·47	21·93
,, ...	3	Halesworth Rectory	·88	·80	1·70	3·41	3·40	·40	3·46	2·19	1·51	4·40	1·36	·65	24·16
,, ...	4	Yarmouth (Burgh Hall).....	·82	·72	1·98	2·42	3·21	·39	2·78	2·34	1·99	4·70	1·81	·59	23·75
,, ...	5	Bury St. Edmunds (Westley Ho.)..	1·17	·46	1·65	3·09	5·11	·59	4·18	1·99	2·06	4·18	1·74	·56	26·78
Norfolk.....	1	Diss (The Cedars).....	·76	·50	1·20	3·04	3·59	·40	3·51	1·94	1·27	3·35	1·23	·48	21·27
,, ...	1	Wymondham	·92	·76	1·81	3·02	3·56	·37	2·44	1·69	1·83	4·31	1·52	·69	22·92
,, ...	2	Acle	·56	·66	1·86	2·75	4·03	·40	2·17	2·05	2·56	4·83	1·45	·65	23·97
,, ...	3	Sandringham House Gardens.....	1·22	·85	1·49	3·12	4·19	1·01	3·99	2·17	2·31	5·12	1·43	·75	27·65
,, ...	3	Langham Episcopi Vic.	1·37	·50	1·99	2·77	3·53	·29	3·90	1·78	2·02	4·42	1·24	·56	24·37
,, ...	4	Thetford (Waterworks).....	·94	·70	1·55	2·81	3·59	·65	3·34	1·80	1·62	3·83	1·44	·56	22·83
,, ...	4	Little Dunham (Dunham Cot.)....	1·18	·83	1·50	3·68	4·47	·69	3·53	1·51	2·21	5·30	1·70	·80	27·40
Wiltshire	1	Bradford (Manvers House).....	3·34	·12	2·48	3·33	5·02	1·38	4·68	·74	4·74	5·73	2·04	1·41	35·01
,, ...	2	Mere (Charnage).....	2·82	·07	1·54	2·47	4·60	1·15	2·97	1·12	4·64	5·95	2·54	1·84	31·71
,, ...	3	Larkhill (School of Artillery).....	2·18	·05	1·76	3·14	3·96	1·58	3·88	1·15	3·39	4·83	1·51	1·07	28·50
,, ...	5	Marlborough College.....	3·40	·09	2·33	3·10	6·04	1·56	4·81	2·62	3·61	5·28	2·20	1·36	36·40
Dorsetshire	3	Weymouth (Springfield).....	1·71	·03	1·78	2·03	2·42	2·29	2·11	·95	3·02	5·75	2·14	1·25	25·48
,, ...	3	Beaminster (Farrs)	4·09	·04	2·72	3·11	5·47	3·04	2·98	1·36	5·08	7·61	3·38	2·33	41·21
,, ...	4	Winterbourne (Whitchurch Vic.)...	3·39	·09	1·86	3·08	3·59	3·02	3·97	1·57	3·78	6·87	2·76	1·92	35·90
,, ...	4	Wimborne (Codford House).....	2·40	·06	1·56	2·79	3·11	2·31	2·90	·76	3·64	5·32	2·32	1·42	28·59
South Devonshire	3	South Brent (Beechfield)	10·16	·05	3·99	6·18	5·74	5·14	4·29	1·96	7·55	13·91	4·78	5·88	69·63
,, ,,	5	Teignmouth (Den Gardens).....	3·74	·01	2·35	2·08	3·89	3·60	1·66	1·50	5·21	6·52	2·07	2·89	35·52
,, ,,	6	Crediton (Okefield)	2·63	·03	1·91	2·73	2·85	1·35	2·70	2·15	4·63	6·93	2·35	1·77	32·03
,, ,,	7	Ottery St. Mary (West Hill).....	3·96	·04	2·86	3·06	4·13	3·43	3·55	1·94	4·48	6·70	2·59	3·80	40·54
North Devonshire	1	Ilfracombe (Langleigh).....	4·66	·03	3·11	2·62	3·92	1·27	4·94	1·38	4·76	10·62	3·45	3·22	43·98
,, ,,	3	Okehampton (Uplands)	8·86	·04	4·20	4·21	3·76	2·35	4·04	1·57	6·64	12·67	4·44	4·10	56·88

Table XX.—(*con.*) *Monthly Rainfall*—**ENGLAND**—(*con.*).

County and River Division.		Station.	Jan.	Feb.	Mar.	Apl.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.
North Devonshire	3	Dolton (Hilliers)	5·02	·03	2·26	2·78	2·87	·82	3·64	3·48	6·65	8·58	2·66	2·09	40·88
Cornwall	1	Redruth (Trewirgie)	4·97	·04	2·60	2·90	5·03	3·48	3·70	1·65	4·94	8·96	3·34	4·01	45·62
,,	1	Newquay (Mount Wise)	3·00	·01	1·80	2·47	2·99	1·48	3·45	1·41	3·85	7·99	2·55	3·39	34·39
,,	1	Bude (School House)	3·28	·00	1·87	1·79	3·31	·80	3·16	1·14	5·13	8·44	2·70	2·92	34·54
,,	2	Penzance (Morrab Gardens)	4·75	·03	2·81	3·49	4·87	3·01	3·15	1·69	5·40	9·10	2·75	3·28	44·33
,,	2	St. Austell (Trevarna)	4·89	·09	3·08	3·99	5·41	2·87	4·68	1·24	5·46	10·03	3·12	3·73	48·59
,,	2	Liskeard (Penmilder)	5·38	·08	2·68	2·80	4·46	3·50	3·71	1·49	4·61	9·67	2·59	3·76	44·73
,,	2	Bolventor Vicarage	10·39	·06	4·25	4·93	5·54	3·56	7·66	2·44	8·34	13·71	4·70	5·90	71·48
,,	3	Devonport (Empacombe)	3·96	·04	1·52	3·17	4·71	3·37	2·42	1·77	5·74	7·65	3·59	3·76	41·70
,,	4	Tresco Abbey	3·12	·10	2·25	2·55	3·51	2·10	2·75	1·39	4·40	6·42	1·85	3·00	33·44
Somersetshire	1	Long Ashton (Research Stn.)	4·53	·05	2·60	3·56	5·93	1·42	2·72	1·21	5·82	7·48	2·02	1·60	38·94
,,	2	Street (Portway)	1·98	·02	1·76	2·28	4·53	1·10	2·21	1·35	4·35	5·89	2·75	1·80	30·02
,,	2	Burnham (Chalbury)	2·51	·09	1·75	2·56	3·55	·74	2·76	1·33	3·98	6·08	2·12	1·96	29·43
,,	3	Taunton (The Park)	3·83	·08	2·01	2·38	3·86	1·12	2·35	1·27	4·10	5·71	2·11	2·01	30·83
,,	5	Brushford Rectory	6·11	·03	3·48	4·00	3·16	1·38	4·43	2·49	7·12	9·45	3·33	2·74	47·72
Gloucestershire	3	Nailsworth (Three Corners)	2·45	·21	2·46	3·38	6·54	1·54	2·54	1·45	4·16	5·91	2·29	1·38	36·11
,,	3	Cheltenham (Montpellier Gdns.)	2·80	·30	1·64	2·66	6·04	1·30	1·65	1·78	3·04	4·33	1·74	1·13	28·41
,,	4	Blockley	2·77	·24	1·80	3·28	6·85	1·37	1·93	5·58	3·11	4·20	1·91	·87	33·91
,,	7	Lechlade (Claydon House)	2·31	·10	2·23	2·75	6·13	·87	2·79	1·81	2·94	4·76	1·72	·59	29·00
Herefordshire	1	Ross (Birchlea)	4·09	·14	1·87	2·88	5·64	1·68	2·28	1·97	3·65	5·37	1·43	1·76	32·76
,,	1	Weobley School	3·06	·17	1·59	3·60	5·63	·85	1·99	2·92	2·59	5·51	2·57	1·71	32·19
Shropshire	3	Bromfield (Warwick House)	3·85	·11	1·97	3·94	4·81	1·20	2·93	2·85	2·91	4·76	1·70	1·68	32·71
,,	3	Culmington Manor	3·43	·07	2·65	4·76	4·62	1·08	2·81	2·28	2·75	4·85	1·87	1·50	32·67
,,	3	Much Wenlock (Willey Park)	2·36	·24	1·93	3·56	4·54	1·14	4·44	1·79	1·71	3·16	1·53	·76	27·16
Staffordshire	2	Kingswinford (Ashwood P.S.)	2·02	·15	1·53	3·06	5·56	·89	3·34	3·89	2·60	3·40	2·05	·86	29·35
,,	2	Market Drayton (Old Springs)	2·67	·14	1·92	2·96	4·44	·47	3·74	1·89	1·52	4·03	2·42	1·00	27·20
,,	3	Lichfield (St. John Street)	1·95	·16	1·64	2·48	6·47	1·13	4·19	1·86	2·74	4·36	2·10	·82	29·90
,,	3	Stafford (Corporation Depôt)	2·83	·20	1·80	2·68	5·12	·47	3·00	1·68	2·53	5·52	2·66	·96	29·45
,,	5	Ashbourne (Mayfield House)	2·64	·27	2·05	3·91	4·77	·84	3·16	1·63	2·51	5·02	2·57	1·08	30·45
Worcestershire	1	Malvern (Free Library)	3·07	·10	1·75	3·80	7·19	1·81	1·79	3·59	3·34	3·93	1·60	1·39	33·36
,,	2	Bewdley (C.E. School)	2·34	·14	1·52	3·28	6·70	1·13	2·47	1·67	2·62	3·45	1·25	1·06	27·63
,,	3	Redditch (Hewell Gardens)	2·08	·23	1·79	3·02	6·99	1·15	3·01	2·40	3·19	3·37	1·53	·90	29·66

Table XX.—(*con.*) *Monthly Rainfall*—**ENGLAND**—(*con.*).

County and River Division.		Station.	Jan.	Feb.	Mar.	Apl.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.
Warwickshire ..	1	Warwick Castle Gardens.....	1·47	·25	1·48	3·51	6·45	1·05	2·89	1·80	3·31	3·30	1·65	·74	27·90
,, ..	1	Coventry (Keresley Grange).....	2·00	·39	1·68	3·26	6·46	1·54	4·73	1·96	3·10	3·39	1·98	1·11	31·60
Leicestershire ..	4	Loughborough (Nan Pantan Res.)..	1·86	·38	2·06	2·55	6·44	1·13	4·28	1·90	2·08	3·52	2·00	·73	28·93
,, ..	4	Belvoir Castle Gardens.....	·96	·57	1·68	2·10	5·23	1·48	6·59	2·22	1·95	3·02	1·67	·68	28·15
Rutlandshire...	1	Uppingham (Ridlington)	1·11	·64	1·62	3·06	4·31	·46	4·32	1·52	3·68	3·32	1·67	·65	26·36
Lincolnshire....	2	Market Deeping (Wilsthorpe).....	·95	·50	1·29	2·17	3·20	·61	3·65	2·79	3·15	2·45	1·17	·44	22·37
,, ...	3	Boston (Black Sluice, Skirbeck)....	·96	·66	1·45	3·06	3·56	·40	5·68	1·72	2·39	3·36	1·50	·67	25·41
,, ...	3	Cranwell Aerodrome.....	·70	·60	1·49	1·86	4·62	·41	9·89	2·01	2·01	3·13	1·56	·55	28·83
,, ...	3	Hackthorn Hall.....	1·19	·73	1·48	2·21	5·23	·48	2·77	1·69	1·90	3·24	1·53	·83	23·28
,, ...	4	Skegness (Marine Gardens).....	·95	·50	1·56	2·54	3·43	·65	1·86	2·82	2·50	2·71	1·37	·46	21·35
,, ...	4	Louth (Westgate)	1·58	·77	1·88	2·60	4·01	·38	2·81	1·99	2·09	3·68	1·85	·99	24·63
,, ...	5	Brigg (Wrawby Road).....	·95	·54	1·52	2·44	4·75	·57	1·96	1·47	1·66	2·94	1·34	1·12	21·26
Nottingham....	2	Newark.....	·86	·65	1·37	2·12	5·37	·60	8·28	1·67	1·41	2·85	1·79	·89	27·86
,, ...	5	Mansfield (West Bank).....	1·66	·56	1·59	2·69	7·01	1·07	4·60	1·59	1·93	3·32	1·92	·87	28·81
Derbyshire.....	5	Littleover (The Knoll).....	1·85	·71	1·59	2·76	6·77	1·07	3·62	2·11	2·10	3·41	1·82	·73	28·54
,, ...	6	Matlock Bath (Lower Tower).....	2·88	·36	2·11	3·28	5·80	·85	2·94	2·11	2·73	4·52	2·69	1·47	31·74
,, ...	6	Buxton (Devonshire Hospital).....	5·56	·40	3·41	5·44	5·06	1·06	3·58	1·45	4·22	8·00	4·40	2·00	44·58
Cheshire.....	1	Altrincham (Burlington Cot.).....	3·44	·11	2·09	3·57	5·19	·62	3·76	1·52	2·92	6·97	2·87	1·17	24·23
,, ...	2	Northwich (Winnington)	2·82	·10	1·50	2·93	4·81	·68	3·40	1·49	2·69	6·02	2·36	·97	29·77
,, ...	4	Eccleston	1·96	·09	1·53	3·08	4·13	·52	3·34	1·29	2·16	4·80	2·23	1·03	26·16
,, ...	4	Neston (Vine House).....	1·86	·06	1·71	2·39	3·63	·32	4·52	1·76	2·66	5·08	2·43	1·05	26·97
South Lancashire	3	Bolton (Queen's Park).....	5·14	·08	2·93	3·59	4·72	·71	4·44	1 84	5·27	8·51	3·99	2·24	43·46
Central ,,	1	Burnley (Swinden)	5·84	·43	3·04	3·97	4·69	1·19	4·62	1·37	6·42	6·91	3·11	2·46	44·05
,, ,,	3	Southport (Hesketh Park).....	3·81	·05	2·01	2·77	3·60	·67	4·19	1·89	4·05	6·40	2·42	1·71	33·57
North ,,	1	Ulverston (Poaka Beck).....	6·24	·00	4·09	4·82	6·30	1·38	6·19	1·36	4·94	7·65	2·98	4·58	50·53
,, ,,	4	Lancaster (Greg Obsy.).....	4·78	·05	2·46	3·30	5·76	1·62	5·30	1·96	5·68	5·97	3·26	3·11	43·25
,, ,,	5	Barton (Newsham House).....	4·24	·05	2·56	2·87	4·55	1·06	4·16	1·86	6·64	7·00	2·80	2·39	40·18
Yorkshire, W.R.	2	Settle (Gas Works).....	6·33	·28	3·10	3·96	4·18	1·94	4·62	1·22	5·62	6·92	3·92	2·82	44·91
,, ,,	7	Sheffield (Weston Park).....	2·70	·40	1·62	3·24	6·72	·68	4·81	2·40	1·82	3·98	2·32	1·18	31·87
,, ,,	7	Doncaster (Avenue Road).....	1·12	·45	1·70	1·92	7·40	1·12	3·49	2·41	1·53	3·00	1·16	·94	26·24
,, ,,	8	Meltham (Harewood Lodge).....	6·22	·55	3·34	4·82	5·79	·49	3·78	2·69	4·05	6·82	3·98	2·04	44·57
,, ,,	9	Leeds (Wortley Reservoir).....	1·49	·13	1·60	2·51	4·24	·30	2·99	·84	2·05	3·50	1·62	·93	22·20
,, ,,	10	Ilkley (Spence's Garden).....	2·83	·30	2·57	3·20	3·64	1·19	3·74	·97	3·45	5·20	2·04	1·22	30·33

Table XX.—(*con.*) *Monthly Rainfall*—**ENGLAND**—(*con.*).

County and River Division.		Station.	Jan.	Feb.	Mar.	Apl.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.
Yorkshire, W.R.	10	York (Cherry Hill)	1·70	·35	1·73	1·39	5·29	1·62	2·81	1·85	2·71	2·69	1·34	1·05	24·53
,, ,,	10	Buckden	8·89	·72	4·26	5·58	4·08	2·69	6·09	1·58	7·57	7·88	5·56	4·04	58·94
,, ,,	11	Knaresborough (The Abbey)	1·77	·39	1·85	2·57	5·45	·65	5·04	1·46	2·45	3·59	2·39	1·18	28·79
,, E.R.	2	Birdsall Gardens	1·68	1·21	1·51	2·21	6·14	·59	1·80	1·59	2·60	3·51	1·49	1·21	25·54
,, ,,	3	Patrington (Rose Cottage)	·76	·67	1·54	2·48	3·13	·27	3·09	2·26	1·61	2·89	1·49	1·00	21·19
,, ,,	3	Holme-on-Spalding Moor	1·29	·59	1·82	2·06	6·78	·49	2·72	1·16	2·27	3·35	1·35	1·43	25·31
,, ,,	3	Beverley (E. Riding Mental Hosp.)	1·69	·61	2·13	2·65	5·13	·49	1·88	1·42	2·23	3·44	1·70	1·14	24·51
,, ,,	4	Bridlington (Corpn. Nurseries)	1·17	·64	2·16	3·44	5·20	·37	1·88	2·01	3·09	3·13	1·60	1·28	25·97
,, N.R.	1	Masham Moor (Roundhill Res.)	3·93	·77	2·73	3·78	6·82	2·59	3·73	2·06	2·61	4·96	3·04	2·13	39·15
,, ,,	2	Felixkirk (Mount St. John)	1·61	·97	2·15	1·23	4·69	1·00	6·12	1·76	2·37	3·55	1·70	1·14	28·27
,, ,,	2	Reeth (Arkengarthdale)	4·67	2·22	3·57	3·32	4·34	1·62	3·03	2·25	4·02	6·65	3·25	4·58	43·53
,, ,,	4	Thornton Dale (High Dalby Ho.)	1·58	1·26	2·21	2·09	4·88	·53	3·79	1·71	3·10	4·00	1·57	1·85	28·57
,, ,,	5	Whitby (Mulgrave Castle)	1·78	·64	2·30	1·56	8·33	·80	3·49	2·12	2·11	4·54	1·81	1·13	30·61
,, ,,	6	Middlesbrough (Albert Park)	1·17	·86	2·17	·76	4·46	·94	3·54	2·41	2·19	2·91	1·42	·87	23·70
Durham	2	Burnhope (Lodgegill Mine)	13·15	1·15	5·90	7·00	3·80	3·80	6·10	4·45	7·50	10·50	5·35	6·40	75·10
,,	2	Durham (Houghall)	1·40	·96	2·19	1·12	3·97	1·21	3·97	2·41	2·08	3·98	·58	·96	24·83
,,	2	Weardale W.W. (Waskerley)	2·35	1·20	2·44	3·18	4·69	1·35	4·19	1·90	3·18	5·51	1·28	1·68	32·95
,,	2	Sunderland (W. Hendon Ho.)	·86	·94	2·91	1·33	4·56	1·25	2·61	2·53	1·94	3·64	1·02	·61	24·20
Northumberland	3	Corbridge (Howden Dene)	1·27	·65	1·96	2·00	2·22	1·38	3·71	2·31	3·36	3·57	1·22	1·05	24·70
,,	4	Bellingham (High green)	2·71	·61	2·69	3·29	2·62	1·34	3·17	1·54	4·72	4·79	1·75	3·25	32·48
,,	5	Morpeth (Cockle Park)	1·03	·56	2·79	1·33	3·43	1·10	2·53	2·65	3·09	3·73	·70	1·29	24·23
,,	5	Fontburn Res. (Tynemouth W.W.)	1·87	·88	3·18	2·86	3·41	1·20	3·17	1·76	4·04	4·87	1·24	2·25	30·73
,,	6	Wooperton	1·83	·79	2·88	2·01	2·98	1·22	3·22	1·20	4·40	5·25	1·15	1·97	28·90
,,	6	Ilderton (Lilburn Tower Gdns.)	1·62	·75	2·71	2·18	2·97	1·84	2·83	1·19	4·76	5·42	·91	1·64	28·82
Cumberland	1	Penrith (Laurel Bank)	6·01	·15	3·07	3·05	2·62	1·69	5·25	1·10	4·07	5·70	2·17	3·41	38·29
,,	1	Geltsdale	3·60	·39	3·59	3·04	3·42	1·36	4·56	2·00	5·71	5·81	2·42	1·91	37·81
,,	1	Carlisle (Scaleby Hall)	3·64	·11	3·20	2·64	3·03	·95	6·79	2·17	4·52	5·37	1·93	2·58	36·93
,,	2	Borrowdale (Stockley Bridge)	(30·00)	·00	9·75	11·75	8·00	5·50	11·50	7·25	17·75	21·50	10·50	27·50	161·00
,,	2	Keswick (Derwent Island)	12·26	·05	4·13	5·23	3·02	2·19	8·01	1·44	8·03	8·91	4·16	9·58	67·01
,,	3	St. Bees (Fern Bank)	4·67	·02	3·53	3·21	3·52	1·80	4·32	2·60	4·45	7·50	2·43	6·27	44·32
Westmorland	1	Kirkby Stephen (Eden Place)	5·90	·41	2·68	4·14	3·36	1·94	4·17	1·04	3·20	5·96	2·30	3·59	38·69
,,	1	Appleby (Castle Bank)	6·69	·37	2·85	3·15	3·50	2·25	4·99	1·00	3·76	5·86	2·22	4·73	41·37
,,	3	Kendal (Highgate)	6·26	·10	3·31	3·67	4·36	2·17	6·08	2·05	5·61	7·26	3·39	4·93	49·19

Table XX.—(*con.*) *Monthly Rainfall*—**MONMOUTH AND WALES, AND THE ISLANDS.**

County and River Division.		Station.	Jan.	Feb.	Mar.	Apl.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.
Monmouth	3	Newport W.W. (Nantypridd)	6·84	·09	2·59	3·83	6·33	2·03	4·14	2·21	5·47	6·54	2·37	2·63	45·07
,,	3	Abergavenny (The Chain)	8·11	·17	2·82	4·39	4·97	1·99	3·82	2·18	3·77	6·80	1·83	2·40	44·25
Glamorgan	3	Swansea (Victoria Park)	5·74	·03	2·53	3·36	5·23	2·94	4·07	1·01	6·41	9·44	3·24	3·96	47·96
,,	5	Bridgend (Eiw Graig)	4·40	·05	1·83	2·75	4·79	2·00	5·34	·92	6·83	9·64	2·20	2·84	43·59
,,	6	Treherbert (Tyn-y-waun)	18·47	·14	5·53	8·17	8·48	3·94	8·00	1·45	11·79	15·72	8·36	6·76	96·81
,,	7	Cardiff (Roath Park)	6·27	·00	2·25	4·09	5·00	1·51	4·33	1·42	5·65	7·14	2·34	2·63	42·63
Carmarthen	2	Carmarthen (The Friary)	8·33	·02	2·69	3·45	4·99	2·43	5·81	·60	4·34	9·17	3·28	4·35	49·46
,,	2	Abergorlech	9·39	·04	3·76	4·32	6·23	3·20	4·76	2·10	5·21	11·82	4·51	5·72	61·06
Pembroke	4	Pembroke (Stackpole Court)	5·28	·03	1·69	3·50	3·95	1·60	3·42	1·95	4·60	6·95	3·29	3·27	39·53
,,	4	Saundersfoot (Hean Castle)	4·61	·04	1·78	3·84	3·68	1·63	3·33	·56	3·54	7·56	3·20	2·95	36·72
,,	4	Haverfordwest (Grammar School)	7·08	·08	2·28	2·99	4·65	2·45	3·80	2·30	3·43	8·07	3·93	4·45	45·51
Cardigan	2	Aberystwyth (Plant Breeding Stn.)	4·52	·12	3·07	2·27	4·20	1·18	4·64	1·16	3·52	7·67	3·45	2·81	38·61
,,	3	Cardigan (County School)	6·00	·02	2·88	2·29	4·43	1·73	3·52	1·33	3·03	7·07	3·10	4·53	39·93
,,	3	Lampeter (Falcondale)	7·61	·11	3·95	3·91	5·38	2·14	4·27	·82	4·48	10·04	5·39	5·35	53·45
,,	5	Plynlimon	12·00	1·00	7·00	7·50	11·00	1·50	9·50	2·00	11·00	15·00	9·50	4·00	91·00
Brecon	7	Swansea W.W. (Cray Res.) No. 1	13·86	·07	4·45	6·66	7·58	3·07	5·19	2·75	5·95	13·12	6·06	6·07	74·83
,,	8	Birmingham W.W. (Cors-yr-hwch)	14·20	·22	5·90	7·90	7·20	3·12	7·80	2·11	8·05	16·33	8·85	7·21	88·89
Radnor	1	Llandrindod Wells (Disserth Rec.)	6·62	·19	2·63	4·81	5·73	1·07	3·36	2·45	3·99	7·59	3·51	2·41	44·36
Montgomery	4	Newtown (Penarth Weir)	5·66	·06	2·91	4·21	5·30	·99	4·53	1·67	3·22	6·16	2·71	1·89	39·31
,,	5	Llandysilio Rectory	3·61	·08	2·57	4·14	3·68	·43	7·98	1·25	1·96	4·24	1·74	1·53	33·21
,,	5	Lake Vyrnwy	9·65	·18	4·72	7·43	4·43	1·68	7·10	1·68	6·77	9·27	4·96	3·37	61·24
Flint	2	Rhyl Sewage Works	3·39	·13	1·55	2·96	2·99	·46	3·04	1·48	2·74	4·52	2·21	1·32	26·79
Denbigh	1	Wrexham (Packsaddle Res.)	3·50	·13	1·84	4·65	4·23	·85	5·60	2·13	2·37	6·01	2·55	1·54	35·40
,,	2	Llangynhafal (Plâs Drâw)	3·09	·26	1·91	4·50	3·27	·76	6·00	1·72	2·70	5·37	2·67	1·43	33·68
,,	3	Pentre Voelas (Voelas Hall)	9·54	·12	4·37	6·26	4·88	1·48	6·04	1·98	5·38	9·18	4·66	4·21	58·10
Merioneth	3	Festiniog (Hafod Fawr)	11·15	·10	5·04	6·43	7·78	2·80	8·98	2·37	7·23	9·94	5·97	5·79	73·58
,,	4	Dolgelly (Bontddu)	8·13	·07	4·94	4·50	6·33	2·03	6·59	1·74	6·68	11·00	5·20	4·35	61·56
Carnarvon	2	Llandudno	3·38	·14	1·50	2·94	2·72	·96	3·77	1·85	2·95	3·76	2·69	2·10	28·76
,,	3	Bethesda (Penrhyn Quarries)	12·92	·36	4·31	6·16	4·70	2·44	7·29	1·85	5·76	9·98	4·55	5·12	65·44
,,	4	Pwllheli (Bodfean Hall Gardens)	4·73	·14	2·52	3·02	3·94	2·06	5·55	1·55	3·83	7·33	3·18	4·13	41·98
,,	5	Snowdon (Cwm Dyli)	19·47	·12	7·16	9·97	9·02	3·28	13·38	2·36	11·59	18·53	10·88	11·30	17·06

Table XX.—(*con.*) *Monthly Rainfall*—**MONMOUTH AND WALES**—(*con.*).

County and River Division.	Station.	Jan.	Feb.	Mar.	Apl.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
		in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.
Anglesey.....	Holyhead (Salt Island).....	4·83	·21	1·48	1·79	2·53	1·40	3·60	1·52	2·69	5·24	3·50	4·34	33·13
,, ...	Llanerchymedd (Llwydiarth Esgob)	4·75	·20	1·10	3·08	3·65	1·34	5·38	1·11	4·01	6·25	4·21	3·76	38·84
	ISLE OF MAN.													
Isle of Man.....	Douglas (Borough Cemetery).....	4·02	·15	1·67	3·78	4·20	2·19	3·21	4·89	4·78	8·50	2·93	5·73	46·05
,, ...	Ramsey (North Promenade).....	5·55	·06	(1·77)	(3·76)	5·22	1·52	4·26	1·58	4·65	6·28	1·41	6·64	(42·70)
	CHANNEL ISLANDS.													
Jersey.....	St. Aubins (Belle Vue).....	2·17	·35	2·33	2·87	3·20	1·41	1·87	·63	3·98	6·29	2·51	1·49	29·10
Guernsey	St. Martin's (Les Blanches).....	1·81	·65	2·39	2·43	2·72	1·57	2·30	·39	3·99	5·63	2·27	1·72	27·87
Sark	Pointe Robert	2·48	·13	1·73	2·67	2·76	1·13	2·82	·74	4·05	5·22	1·75	1·70	27·18
Alderney	St. Anne (Grosnez House).....	2·69	·49	2·09	2·61	3·91	·87	2·92	·52	3·88	6·62	2·20	1·25	30·05
	SCOTLAND.													
Wigtownshire .. 3	Whithorn (Glasserton)	3·18	·07	2·46	3·76	3·50	1·24	2·94	2·12	6·74	6·10	3·13	5·28	40·52
,, .. 3	Port William (Monreith).....	3·07	·01	2·78	3·65	3·30	1·25	2·72	2·08	6·16	5·91	2·88	5·45	39·26
,, .. 4	Kirkcowan (Craighlaw).....	4·26	·08	2·87	4·88	3·22	1·69	4·04	2·88	5·86	8·16	4·18	6·85	48·97
Kirkcudbrightsh'e 3	Dalry (Glendarroch)	9·07	·11	3·05	5·70	3·78	1·64	3·49	2·34	6·15	6·71	4·14	10·42	56·60
,, 4	Dalbeattie (Kirkennan)	8·05	·13	3·30	4·18	4·68	1·48	4·64	2·55	5·55	7·54	3·92	8·94	54·96
Dumfriesshire .. 3	Moniaive (Glencrosh)	9·37	·07	2·88	4·92	3·48	2·11	4·82	2·31	5·28	8·37	4·73	12·67	61·01
,, .. 4	Dalton (Kirkwood).....	5·44	·16	3·93	3·73	3·65	2·16	5·22	2·02	5·17	7·50	3·59	7·49	50·06
,, .. 5	Langholm (Ewes, Sandyhaugh)....	10·04	·20	3·76	4·61	3·88	1·97	5·51	1·20	6·54	7·32	4·11	9·43	58·57
,, .. 5	Eskdalemuir Observatory	11·70	·18	4·19	5·30	3·40	1·89	7·79	2·23	6·19	9·08	5·84	13·13	70·92
Roxburghshire.. 3	Jedburgh (Jedneuk)	2·31	·23	2·54	1·88	1·80	·94	2·41	1·18	3·75	4·58	·80	1·77	24·19
Selkirkshire 1	Selkirk (Whitmuir Hall)	3·55	·76	2·91	2·77	2·12	1·21	4·32	1·46	4·28	5·36	1·92	4·72	35·38
Peeblesshire.... 1	Edin. W.W. (Victoria Lodge).....	10·94	·46	2·76	5·12	3·12	1·56	5·90	·90	4·74	8·33	3·33	10·92	58·08
,, ... 2	Stobo Castle.....	6·20	·30	2·78	3·75	2·46	1·29	3·54	1·15	4·51	6·46	2·57	6·27	41·28
Berwickshire ... 2	Earnscleugh Burn (Blythe Rig)....	3·11	1·01	3·85	3·49	2·85	1·53	3·10	1·06	3·16	7·79	1·57	3·76	36·28
,, ... 4	Marchmont House.....	2·13	·67	3·17	2·29	2·32	1·42	2·40	·75	3·54	6·05	1·19	1·81	27·74
East Lothian .. 5	North Berwick Reservoir.....	1·45	·33	2·38	1·27	2·41	1·08	2·17	·21	2·14	5·36	1·49	2·34	22·63
Midlothianshire. 5	Pentland Hills (Harperrig).....	5·91	·45	2·80	4·18	4·34	1·47	2·45	1·11	4·20	7·06	3·01	7·62	44·60

Table XX.—(*con.*) *Monthly Rainfall*—**SCOTLAND**—(*con.*).

County and River Division.	Station.	Jan.	Feb.	Mar.	Apl.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
		in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.
Midlothianshire. 5	Edinburgh (Royal Observatory)...	2·99	·18	2·64	2·07	2·83	1·00	1·90	·37	2·48	5·82	1·56	4·80	28·64
Lanarkshire.... 4	Gartcosh (Gartloch Hospital).....	8·36	·05	2·44	3·20	3·07	·89	3·67	1·41	4·56	5·73	3·05	6·81	43·24
,, ... 5	Douglas (Kilncroft).....	11·73	·14	4·16	5·57	2·98	1·16	2·98	1·55	5·65	7·16	4·28	8·20	55·56
,, ... 5	Strathaven (East Overton Ho.)....	8·69	·05	2·78	3·98	3·05	1·86	3·90	1·86	6·12	6·93	4·41	9·05	52·68
Ayrshire..... 3	Dalry (Munnock Reservoir).....	7·68	·11	3·29	4·37	3·62	2·24	4·80	3·16	6·11	7·46	4·41	7·88	55·13
,, ... 6	Maybole (Culzean Castle Gardens)..	6·06	·03	2·12	2·96	2·43	1·74	3·83	2·02	4·74	5·94	4·36	9·79	46·02
,, ... 8	Colmonell (Knockdolian).....	5·19	·08	2·88	3·61	2·83	1·95	4·98	1·58	5·57	7·27	4·11	7·74	47·79
,, ...13	Glen Afton (Ayr Sanatorium).....	11·11	·14	3·05	5·16	3·23	2·33	4·01	1·42	7·14	8·99	6·10	10·09	62·77
Renfrewshire... 2	Houston Manse	9·00	·03	2·05	5·16	3·49	1·57	3·33	2·56	4·50	6·90	5·09	10·53	54·21
Dumbartonshire 2	Cardross (Kilmahew).....	9·22	·02	2·62	4·05	2·89	1·67	2·64	2·43	4·42	6·88	4·93	8·73	50·50
Stirlingshire.... 1	Falkirk (Westbank Garden).....	5·09	·04	2·21	3·24	3·09	1·06	2·34	·91	3·97	5·14	3·15	7·41	37·65
Buteshire..... 1	Port Bannatyne (Ettrickdale).....	8·00	·16	3·84	4·94	2·89	2·05	3·63	3·90	5·37	7·44	5·13	6·52	53·87
,, ... 3	Arran (Dougarie Lodge).....	5·57	·05	2·89	4·47	2·61	1·64	3·54	2·45	4·37	6·76	3·11	6·68	44·14
Argyllshire..... 2	Loch Sunart (Glenborrodale).....	9·87	·45	4·42	5·98	1·92	2·67	5·77	4·05	7·88	10·99	6·90	7·17	68·17
,, ... 2	Acharacle (Shielbridge).....	10·08	·54	3·43	4·77	1·87	1·92	5·24	3·34	7·80	10·66	7·95	7·35	64·90
,, ... 3	Morvern (Kingairloch).....	18·95	·32	6·57	8·40	4·56	3·95	8·45	5·31	8·87	15·47	15·16	14·86	110·87
,, ... 5	Glen Etive	21·90	·00	5·16	8·01	3·98	1·88	11·04	5·41	13·73	12·93	14·32	16·57	114·93
,, ... 6	Bridge of Orchy (Inveroran).....	15·26	·04	2·51	5·44	3·84	1·99	8·20	4·77	8·01	9·24	10·86	16·82	86·98
,, ... 7	Oban	9·55	·06	3·10	3·71	2·67	1·08	4·41	3·29	5·10	9·40	7·01	7·04	56·42
,, ...10	Campbeltown (South Park).....	4·72	·13	2·91	5·53	2·80	2·35	4·20	2·56	4·90	7·61	3·82	6·83	48·36
,, ...10	Skipness (Claonaig).....	7·68	·04	3·02	4·88	2·40	1·53	4·24	2·89	6·73	6·82	4·13	6·95	51·31
,, ...11	Ardrishaig (Canal Office).....	10·39	·04	5·20	6·13	3·46	2·52	5·43	4·87	6·60	9·52	6·94	8·76	69·86
,, ...11	Ardkinglas	15·66	·03	4·35	7·64	2·72	2·54	7·52	4·99	6·54	11·21	7·87	11·91	82·98
,, ...12	Loch Eck (Benmore).....	18·74	·07	6·15	8·73	3·28	2·72	6·72	6·36	7·98	11·19	9·59	14·77	96·30
,, ...14	Islay (Ardbeg).....	5·02	·12	3·71	4·54	2·24	1·39	4·77	2·83	4·55	6·78	4·83	4·33	45·11
,, ...14	Jura (Ardfin)	7·48	·12	4·46	4·95	3·63	2·24	4·88	2·67	5·23	7·90	4·53	7·24	55·33
,, ...14	Mull (Bunessan).....	5·70	·26	3·58	3·48	2·16	2·81	3·85	4·85	4·64	8·04	5·09	5·21	49·67
,, ...14	Mull (Benmore).....	16·60	2·00	7·00	11·20	4·20	6·40	14·80	14·80	15·00	21·50	8·70	12·40	134·60
,, ...14	Mull (Glencannel)	14·71	·21	5·85	9·11	3·80	5·04	8·60	10·02	11·84	16·66	12·87	10·53	109·24
,, ...14	Tiree (Cornaigmore Sch.).....	5·65	·26	2·65	3·41	1·20	1·90	4·35	3·48	3·64	5·13	5·01	4·39	41·07
Fifeshire..... 2	Kirkcaldy (Munro Street).....	2·28	·11	2·75	2·03	2·69	1·61	2·66	·56	2·59	5·28	1·87	5·10	29·53
,, ... 3	Cupar (Fife and Kinross Asylum)..	2·31	·07	2·34	2·53	3·03	1·30	3·52	·55	1·61	6·21	1·64	4·44	29·55

Table XX.—(*con.*) *Monthly Rainfall*—**SCOTLAND**—(*con.*).

County and River Division.	Station.	Jan.	Feb.	Mar.	Apl.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
		in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.
Perthshire 3	Loch Drunkie	10·75	·05	3·35	6·25	3·90	2·05	4·50	4·10	3·50	8·30	6·65	12·30	65·70
,, ... 3	Glengyle	20·20	·15	4·75	9·20	4·60	3·60	7·35	5·00	5·95	11·75	9·95	18·20	100·70
,, ... 4	Glendevon (Tormaukin)	6·23	·06	3·60	5·85	4·28	1·22	5·26	1·03	3·31	7·92	4·82	14·96	58·54
,, ... 7	Lochearnhead (Edinchip)	14·36	·22	2·86	6·94	3·74	2·18	5·52	3·29	3·82	9·52	7·17	14·76	74·38
,, ... 7	Crieff (Strathearn Hydro)	5·86	·16	2·85	3·37	3·16	1·15	4·38	1·64	2·05	5·87	2·43	8·06	40·98
,, ...11	Aberfeldy (Dall Avon)	6·89	·14	2·30	3·34	2·45	1·41	3·69	1·41	1·89	6·69	2·74	6·15	39·10
,, ...14	Loch Rannoch (Dall)	10·59	·06	2·11	4·52	2·36	·93	4·63	2·71	3·30	6·72	4·42	10·19	52·54
,, ...14	Glen Bruar (Bruar Lodge)	6·55	·19	4·02	4·46	3·73	1·02	6·18	2·22	4·35	8·66	4·45	6·64	52·47
,, ...15	Kirkmichael (Ballintuim Ho.)	5·05	·21	3·04	4·02	3·47	1·24	3·51	1·84	1·59	7·20	2·30	5·18	38·65
Angus..... 1	Kettins School	3·05	·16	2·44	3·49	2·45	·93	3·74	·85	1·76	6·27	1·64	4·31	31·09
,, ... 3	Arbroath (W. Cemetery)	1·44	·16	2·69	1·99	2·50	1·13	3·93	·50	2·50	6·58	1·17	2·20	26·79
,, ... 3	Glen Prosen (Pearsie House)	3·49	·18	3·01	3·01	3·73	1·20	3·40	1·31	1·68	6·24	2·14	5·49	34·88
Kincardineshire 1	Marykirk (Balmakewan)	2·02	·14	2·86	3·21	3·11	·98	3·59	·98	1·93	6·67	1·44	2·41	29·34
,, 3	Strachan (Bridge of Dye)	3·77	·43	3·70	5·12	3·60	1·06	3·69	1·34	2·44	10·34	1·59	3·88	40·96
Aberdeenshire .. 1	Braemar (Bank)	5·30	·18	2·04	3·73	3·76	1·17	3·78	·82	2·65	8·17	2·55	5·61	39·76
,, .. 1	Ballater (Irrigation Farm)	3·19	·22	2·10	2·99	4·59	·49	2·51	·65	2·57	8·40	1·25	2·50	31·46
,, .. 1	Logie Coldstone School	3·00	·50	3·10	3·15	3·81	·63	2·99	·99	3·58	7·76	1·79	1·67	32·97
,, .. 2	Aberdeen (King's College)	1·83	·31	4·15	2·94	2·82	1·13	3·41	2·10	3·59	6·59	1·65	1·41	31·93
,, .. 2	Craibstone (Woodlands Field)	1·72	·35	3·96	4·04	2·63	1·20	2·97	3·52	3·06	7·31	1·51	1·42	33·89
,, .. 3	Haddo House	1·63	·46	3·66	4·29	1·97	·67	2·49	1·10	4·02	7·37	1·88	1·31	30·85
,, .. 4	Peterhead (Forehill Works)	1·75	·68	3·61	3·86	1·61	·67	2·15	1·30	3·38	6·74	2·07	1·44	29·26
,, .. 5	Huntly (Cruchie)	1·73	·67	2·39	3·20	2·34	·66	3·41	1·46	5·07	6·66	1·84	1·58	31·01
Banffshire 2	Turriff (Forglen Gardens)	1·90	·58	3·43	3·57	1·94	·60	3·75	1·26	3·76	7·67	2·08	1·50	32·04
Morayshire..... 2	Gordon Castle	1·66	·61	2·74	2·97	2·07	·29	2·61	1·52	3·34	6·54	3·09	1·68	29·12
,, ... 3	Grantown-on-Spey	2·24	·60	3·42	4·47	3·82	·51	3·97	1·10	3·80	5·80	3·03	2·21	34·97
,, ... 3	Aberlour (Wester Elchies)	1·57	·81	3·14	4·16	3·20	·30	3·16	1·16	4·22	8·36	2·78	1·35	34·21
Nairnshire 2	Nairn (Achareidh)	2·99	·55	2·59	3·15	2·90	·18	2·87	2·12	2·61	5·06	2·89	1·98	29·89
Inverness-shire . 3	Cluny Castle	7·30	·27	2·70	2·57	2·69	·34	4·16	2·03	3·96	8·00	6·11	4·94	45·07
,, .. 3	Alvie Manse	3·61	·40	2·31	3·44	3·57	·20	3·65	1·09	2·70	6·59	3·62	3·20	34·38
,, .. 6	Loch Ness (Foyers)	7·32	·49	3·11	4·73	3·60	·18	4·27	1·38	3·57	6·70	6·70	5·28	47·33
,, .. 7	Loch Quoich (Glenquoich)	21·63	·54	5·00	9·72	3·93	2·55	10·74	6·86	12·93	16·72	18·02	12·25	120·89

Table XX.—(*con*). *Monthly Rainfall*—**SCOTLAND**—(*con.*).

County and River Division.		Station.	Jan.	Feb.	Mar.	Apl.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.
Inverness-shire	12	Loch Nevis (Inverie Gdns.)	10·78	·73	3·66	6·11	2·18	1·82	9·79	5·15	9·17	13·29	10·64	8·47	81·79
,,	13	Arisaig House	8·79	·75	3·50	5·49	1·76	2·11	7·46	4·56	8·12	11·04	7·92	6·37	67·87
,,	17	Glenleven (Corrour Station)	17·35	·11	3·12	6·41	3·65	·90	7·48	2·69	8·08	9·32	10·90	15·44	85·45
,,	17	Fort William (Glasdrum)	17·12	·14	3·30	5·90	3·28	·92	7·99	4·32	6·83	10·96	11·49	12·36	84·61
,,	18	Hyskier	8·88	·49	4·75	3·72	1·51	1·98	3·44	3·57	5·24	4·61	5·99	5·93	50·11
,,	18	Skye (Kyleakin, Dunringell)	13·14	·66	2·56	5·58	2·09	1·71	5·41	3·91	6·23	9·33	10·02	9·36	70·00
,,	18	Skye (Portree)	12·47	·84	3·23	5·36	2·65	2·48	4·46	4·42	9·56	9·05	7·50	8·56	70·58
,,	18	Skye (Dunvegan)	11·36	·63	3·17	5·90	2·49	2·96	4·45	4·71	6·60	8·66	6·11	5·24	62·28
,,	19	Barra (Skallary)	6·80	·39	3·16	3·89	1·13	1·86	4·33	3·78	4·72	6·75	4·74	4·37	45·92
,,	19	N. Harris (Amhuinnsuidh Castle)	10·88	1·32	3·71	5·81	2·03	1·92	5·63	5·88	8·19	7·35	4·94	4·88	62·54
Ross & Cromarty	1	Glenmoriston (Cluanie Inn)	23·71	·88	4·86	10·06	3·74	2·26	7·76	4·31	11·68	14·98	15·19	15·71	115·14
,,	4	Strathpeffer	5·44	·44	2·37	5·26	2·60	·44	2·71	2·28	3·14	5·25	4·16	2·64	36·73
,,	4	Alness (Ardross Castle)	5·56	·36	3·84	5·75	3·38	·55	2·86	1·43	3·93	5·94	4·38	3·26	41·24
,,	7	Braemore (Loch a' Bhraoin)	12·24	1·24	3·16	7·64	2·60	·45	3·76	6·00	8·75	9·75	8·40	8·12	72·11
,,	7	Ullapool	9·09	1·05	3·20	5·03	1·57	·74	3·58	3·54	5·23	5·41	6·37	4·35	49·16
,,	8	Poolewe (Inverewe Gardens)	9·79	·96	1·72	5·83	1·67	·76	3·98	3·24	7·92	5·76	6·51	4·12	52·26
,,	9	Loch Carron (Dunhulladale)	12·36	1·07	4·20	7·42	2·49	1·83	7·08	6·21	8·84	10·09	9·25	7·52	78·36
,,	9	Achnashellach	16·97	·90	4·05	7·65	2·57	1·92	6·87	6·02	12·90	7·64	10·96	8·74	87·19
,,	10	Stornoway	10·45	·59	2·95	3·87	1·50	1·56	2·81	4·58	4·76	5·38	4·59	3·84	46·88
Sutherlandshire	1	Lairg	5·08	·43	3·18	4·10	2·93	·26	3·48	2·32	4·28	4·27	4·16	2·03	36·52
,,	2	Golspie (Technical School)	4·12	·28	2·58	4·01	3·22	·36	3·36	1·30	3·24	4·17	3·44	1·83	31·91
,,	4	Skerray (Borgie)	5·56	1·19	4·94	4·27	3·19	·49	4·27	3·00	5·52	5·07	5·47	3·15	46·12
,,	4	Tongue	5·91	1·23	4·11	4·23	2·34	·63	4·84	3·24	5·19	5·07	4·34	2·61	43·74
,,	4	Melvich	4·71	·71	3·14	2·58	3·43	·49	3·49	2·72	4·99	4·76	3·73	1·95	36·70
,,	5	Loch More (Achfary)	14·79	2·67	7·64	9·01	3·51	1·73	6·71	6·06	14·78	8·32	8·44	6·17	89·83
Caithness-shire	2	Wick	3·41	·54	2·05	2·97	1·40	·65	3·00	2·72	3·82	4·93	2·93	2·01	30·43
,,	3	Thurso (Buckies)	3·91	·88	3·35	3·49	2·54	·73	3·36	3·15	4·83	4·50	3·62	1·79	36·15
Orkney		Kirkwall (Bignold Park)	4·95	·59	3·36	3·08	1·26	·63	2·78	2·90	4·30	3·92	4·24	3·02	35·03
Shetland		Lerwick Observatory	4·36	·81	3·20	3·80	1·70	1·50	2·97	3·40	5·36	3·96	3·63	2·87	37·56

Table XX.—(*con.*) *Monthly Rainfall*—IRELAND.

County and River Division.		Station.	Jan.	Feb.	Mar.	Apl.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.
Co. Cork	4	Garinish Island	10·85	·51	4·18	4·49	7·70	3·01	3·26	2·88	3·33	6·52	3·80	11·25	61·78
,,	6	Castletownshend (Seafield)	6·86	·47	3·02	1·88	5·23	1·66	2·48	1·91	3·19	4·61	2·95	7·97	42·23
,,	6	Dunmanway (The Rectory)	8·49	·72	3·67	3·31	8·07	2·46	3·10	2·65	3·36	5·91	3·33	10·50	55·57
,,	7	Cork (University College)	5·19	·17	3·18	2·48	4·24	1·39	2·67	2·28	2·35	3·79	1·66	8·17	37·57
,,	9	Mallow (Longueville)	5·64	·25	3·41	2·74	3·49	1·51	4·10	2·92	2·18	3·20	1·84	7·57	38·85
,,	9	Kanturk (Castlecor)	4·09	·32	2·87	3·61	2·97	2·43	3·97	2·74	2·65	3·65	1·86	5·55	36·71
Co. Kerry	3	Cahirciveen (Valentia Obs.)	7·32	·45	3·84	3·72	4·94	2·95	4·72	2·96	2·56	5·19	2·11	8·22	48·98
,,	3	Killarney (Flesk Mills)	9·88	·08	5·15	4·55	3·82	2·50	4·98	2·93	2·70	4·21	2·65	11·60	55·05
,,	3	Killorglin (Callinafercy)	7·51	·30	3·97	4·78	2·55	2·52	4·11	2·36	3·23	4·40	2·50	7·30	45·82
,,	3	Bally McElligott Rectory	5·69	·13	3·47	3·60	3·03	2·67	4·31	2·76	2·10	3·61	1·91	6·46	39·74
,,	4	Darrynane Abbey	6·20	·32	3·51	3·15	4·69	2·55	3·22	2·21	2·82	4·96	2·15	6·52	42·30
,,	4	Kenmare (Dromore Castle)	8·25	·24	5·08	4·05	6·52	2·91	4·80	4·25	4·89	6·03	3·61	10·83	61·46
Co. Waterford	3	Waterford (Gortmore)	4·24	·35	2·19	1·80	4·04	2·14	3·22	2·13	1·61	5·03	1·90	8·01	36·66
,,	3	Carrick-on-Suir (Seskin)	6·45	·41	2·63	2·40	4·41	2·35	4·21	3·04	1·71	4·62	3·25	7·68	43·16
Co. Tipperary	1	Nenagh (Traverston)	6·14	·15	2·38	4·58	3·46	·81	3·67	2·21	3·62	4·29	2·67	7·32	41·30
,,	1	Nenagh (Castle Lough)	5·15	·33	1·80	2·74	2·70	1·49	4·14	3·83	4·38	3·72	2·26	5·96	38·50
,,	3	Cahir (Abbey)	4·26	·28	1·92	2·53	3·62	1·91	3·43	1·56	2·01	4·25	1·88	6·78	34·43
,,	3	Cashel (Ballinamona)	3·83	·07	1·41	2·52	3·54	1·04	4·42	2·33	1·84	3·30	1·73	6·13	32·16
,,	4	Roscrea (Timoney Park)	2·99	·14	1·32	1·93	2·74	1·31	5·12	3·24	2·74	3·32	1·84	4·76	31·45
Co. Limerick	2	Abbeyfeale (Springmount School)	5·57	·04	3·19	3·12	1·88	1·40	3·37	3·28	3·27	3·62	2·32	6·81	37·87
,,	2	Knocklong (Kilfrush)	4·04	·13	2·97	2·45	3·13	1·13	4·10	3·33	2·04	3·36	1·66	5·22	33·56
,,	2	Foynes (Coolnanes)	4·62	·12	2·15	2·94	1·61	1·57	3·54	2·50	3·85	3·65	2·22	5·19	33·96
,,	2	Limerick (Mulgrave Street)	4·24	·10	2·11	2·40	2·33	1·41	3·40	4·73	3·37	3·88	2·38	5·15	35·50
Co. Clare	2	Kilkee (Marine Parade)	6·36	·08	2·27	3·35	1·80	3·45	4·26	1·91	3·35	5·42	2·54	6·11	40·90
,,	2	Inagh (Mount Callan)	7·00	·10	2·58	4·19	2·98	2·35	6·71	2·99	5·62	6·42	3·90	7·60	52·44
,,	3	Tuamgraney (Raheen Ho.)	5·69	·19	2·62	2·84	2·98	1·15	4·51	2·84	5·41	4·09	2·76	6·82	41·90
Co. Wexford	2	Foulks Mill (Longraigue)	4·46	·33	1·84	2·22	4·82	1·69	4·06	2·50	2·29	5·42	2·16	7·11	38·90
,,	3	Johnstown Castle	4·40	·24	1·88	2·23	5·82	1·54	3·79	2·34	2·23	6·25	2·76	7·12	40·60
,,	3	Enniscorthy (Woodbrook)	5·19	·46	2·16	2·88	5·85	1·90	4·90	2·70	3·07	5·91	2·48	8·84	46·34
,,	4	Gorey (Courtown House)	4·05	·17	1·88	3·10	5·52	1·36	3·96	2·51	1·87	3·62	1·49	7·49	37·02
Co. Kilkenny	2	Kilkenny Castle	3·50	·17	1·42	1·91	2·97	1·63	4·34	2·00	1·45	3·35	1·52	4·54	28·80

Table XX.—(*con.*) *Monthly Rainfall*—**IRELAND**—(*con.*).

County and River Division.		Station.	Jan.	Feb.	Mar.	Apl.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.
Co. Wicklow ...	4	Newcastle (Killadreenan)	3·65	·32	1·71	2·95	5·04	1·35	3·37	1·77	1·10	3·04	1·02	6·58	31·90
,, ...	5	Blessington Rectory	4·79	·51	1·40	3·43	4·96	1·04	6·96	2·52	3·68	4·16	2·13	6·38	41·96
Co. Carlow	2	Bagnalstown (Fenagh House)	3·74	·29	1·38	2·24	4·16	2·07	4·31	1·61	2·78	3·93	1·55	6·17	34·23
,, ...	3	Hacketstown Rectory	3·21	·36	1·89	3·27	5·09	1·53	5·45	2·48	2·35	3·35	2·03	6·33	37·34
Co. Leix	2	Abbey Leix (Blandsfort)	4·49	·30	1·44	3·27	3·07	1·48	4·54	3·27	2·56	3·64	1·95	5·44	35·45
,, ...	3	Mountmellick (Summer Grove)	4·67	·32	1·69	3·62	2·60	·99	5·25	3·50	2·66	4·90	2·24	6·56	39·00
Co. Offaly	1	Birr Castle	3·94	·23	1·26	2·22	2·75	·57	3·69	1·46	3·71	3·30	1·28	4·35	28·76
,, ..	1	Ferbane (Turraun Peat Works)	3·35	·18	1·67	2·35	1·78	·66	2·98	1·05	3·15	3·39	1·45	4·21	26·22
Co. Kildare	2	Straffan House	3·90	·19	1·05	2·62	4·19	·93	5·80	2·57	2·82	3·60	1·38	4·99	34·04
Co. Dublin	2	Howth Castle	1·77	·21	1·44	1·40	4·58	·40	3·57	1·95	2·01	2·58	·89	3·27	24·01
,, ...	3	Balbriggan (Ardgillan)	2·07	·23	1·25	2·29	3·77	1·17	4·19	2·69	2·01	2·74	·99	4·54	27·94
Co. Meath	2	Dunboyne (Stirling, Clonee)	2·96	·24	1·61	2·77	3·99	·83	4·29	2·51	2·46	3·04	1·53	4·49	30·72
,, ...	4	Summerhill House	2·92	·36	1·26	3·02	3·34	1·15	4·06	3·08	2·77	3·49	1·67	4·88	32·00
,, ...	4	Kells (Headfort)	3·47	·30	1·61	2·38	3·50	1·20	4·98	1·39	3·47	3·67	1·99	5·38	33·34
Co. Westmeath .	1	Mullingar (Belvedere House)	4·27	·19	1·46	2·69	3·33	1·05	4·02	1·99	4·17	4·29	1·77	5·19	34·42
,, ..	1	Mullingar (Ballynegall Gdns.)	4·35	·16	1·78	2·53	3·38	·98	3·69	1 95	3·71	3·90	2·16	5·58	34·17
,, ..	1	Castlepollard (Pakenham Hall)	4·23	·12	1·93	2·82	3·53	·89	5·12	2·02	4·10	4·32	2·27	5·80	37·15
Co. Louth	2	Dundalk (Aughneskea Reservoir) ..	2·65	·33	1·99	3·06	4·01	1·00	3·98	2·48	2·85	3·08	2·14	5·27	32·84
Co. Longford ...	2	Ballymahon (New Castle)	4·16	·14	1·64	2·75	2·60	1·88	4·45	2·72	4·83	3·39	1·75	5·69	36·00
,, ...	2	Castle Forbes Gardens	4·47	·15	1·83	2·41	3·15	·67	4·49	2·97	3·30	3·76	2·58	5·61	35·39
Co. Galway	3	Galway (Grammar School)	4·56	·13	1·63	2·78	2·61	2·52	4·65	(2·50)	(3·50)	2·84	1·98	(5·50)	(35·20)
,, ...	3	Ballynahinch Castle	6·88	·22	2·67	3·82	2·58	2·71	6·04	4·55	4·86	4·46	3·20	7·73	49·72
,, ...	3	Tuam Palace Gardens	6·14	·30	1·62	3·56	3·45	3·04	5·17	2·84	3·71	3·74	2·52	6·58	42·67
,, ...	5	Portumna	3·92	·22	1·66	1·92	1·79	1·55	3·41	1·79	3·18	2·84	1·14	4·63	28·05
,, ...	5	Ahascragh (Clonbrock)	5·44	·07	2·24	3·18	2·43	1·00	4·50	2·48	4·33	2·73	2·24	6·01	36·65
Co. Roscommon	4	Strokestown (Castlenode)	4·78	·18	1·62	3·05	2·67	·99	4·02	1·78	3·70	3·65	2·11	6·11	34·66
,,	4	Boyle	4·14	·08	1·16	3·41	2·39	1·75	3·99	1·66	4·04	3·09	2·06	4·91	32·68
Co. Mayo	2	Castlebar Rectory	7·28	·28	3·14	4·65	2·99	1·65	5·36	1·47	5·53	5·16	3·99	6·08	47·58
,, ...	3	Blacksod Point	9·01	·14	2·59	4·25	1·90	2·54	4·50	3·41	4·41	4·85	4·81	7·66	50·07
,, ...	4	Mallaranny	8·78	·08	3·00	5·17	2·63	4·07	6·32	3·48	5·36	5·87	5·44	8·70	58·90
,, ...	5	Aasleagh House	16·33	·32	5·31	7·63	7·12	4·02	8·24	3·45	8·83	7·05	9·43	15·79	93·52
,, ...	5	Delphi Lodge	13·06	·34	4·81	6·80	6·51	5·46	10·03	3·58	8·01	6·74	8·44	14·36	88·14

Table XX.—(*con.*) *Monthly Rainfall*—**IRELAND**—(*con.*).

County and River Division.	Station.	Jan.	Feb.	Mar.	Apl.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
		in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.
Co. Sligo..... 2	Collooney (Markree Obsy).....	5·48	·18	2·28	4·58	2·77	2·32	6·09	2·55	4·66	5·37	3·27	6·32	45·87
,, ... 2	Sligo (Ard-na-veagh)	4·84	·09	2·40	4·07	1·80	1·86	6·20	2·33	4·80	5·93	4·08	5·60	44·00
Co. Leitrim 5	Cloone.....	5·11	·07	2·07	3·35	2·60	1·23	4·88	2·50	3·89	4·42	2·86	6·56	39·54
Co. Cavan 1	Crossdoney (Kevit Castle).....	4·07	·11	2·20	2·76	2·44	1·47	4·24	2·81	3·42	4·09	2·29	5·33	35·23
,, ... 1	Belturbet (Cloverhill)	3·40	·02	2·10	2·65	2·37	·80	4·94	2·45	3·50	3·24	1·79	4·17	31·43
Co. Fermanagh . 1	Enniskillen (Portora School).....	4·37	·07	2·40	2·55	2·71	1·42	4·18	2·50	4·37	3·56	2·86	5·54	36·53
,, .. 1	Belleek (Heronshaw).....	5·84	·19	3·00	3·85	2·18	1·96	5·28	2·79	5·13	5·41	4·10	5·62	45·35
Co. Armagh 3	Lurgan (Belle Vue).....	2·31	·12	1·59	2·24	2·15	1·32	3·92	2·60	2·71	2·39	1·26	4·02	26·63
,, ... 5	Armagh Observatory	3·06	·12	1·82	2·38	2·68	·85	5·26	2·41	3·11	2·81	2·04	4·94	31·48
Co. Down..... 1	Newry (Bridge Street House).....	3·15	·11	2·21	3·49	3·23	1·43	3·93	2·38	2·57	3·35	2·29	6·30	34·44
,, ... 2	Silent Valley (Belfast W.W.)	3·10	·50	2·56	4·83	5·59	1·84	5·16	4·55	3·17	5·11	2·87	7·66	46·94
,, ... 2	Seaforde	2·95	·15	2·07	3·57	3·83	1·75	5·08	4·57	2·73	3·77	1·62	6·20	38·29
,, ... 4	Donaghadee(Coastguard Station)..	2·51	·12	1·47	3·15	2·24	1·21	5·54	2·53	3·20	3·12	1·98	5·17	32·24
Co. Antrim..... 1	Belfast (Queen's University).....	2·43	·20	1·90	3·69	2·26	1·11	5·03	2·22	3·13	3·45	1·96	4·68	32·05
,, ... 2	Larne (Sallagh Springs).....	5·07	·08	2·29	5·00	3·02	2·97	5·20	2·03	4·75	5·07	2·85	6·86	45·19
,, ... 3	Ballycastle (Magherintemple)	4·58	·14	2·09	4·06	1·96	1·00	5·71	1·78	4·03	6·24	4·34	4·78	40·71
,, ... 5	Aldergrove Aerodome	3·00	·12	1·85	2·93	2·11	2·01	5·70	2·30	3·37	3·26	1·70	4·86	33·21
,, ... 5	Ballymena (Harryville)	4·32	·22	2·61	4·44	2·18	2·32	4·18	2·17	3·78	4·81	3·11	6·03	40·17
Co. Londonderry 1	Londonderry (Dunruadh).....	5·00	·22	2·57	3·87	1·88	1·16	4·52	1·74	3·17	5·80	4·43	4·77	39·13
,, ... 5	Glenedra Lodge	7·10	·20	4·46	6·07	4·45	2·86	5·86	2·42	5·77	6·02	4·83	8·48	58·52
,, ... 5	Limavady (Drenagh)	3·42	·16	2·12	3·67	1·23	1·09	4·12	2·27	2·94	4·16	3·09	3·88	32·15
Co. Tyrone..... 2	Castlecaulfield (Parkanaur).....	3·66	·10	2·63	3·40	3·66	1·83	4·81	2·54	3·77	3·77	2·67	5·45	38·29
,, ... 3	Omagh (Edenfel).....	5·02	·25	2·42	3·28	2·96	1·67	5·44	2·19	4·79	4·03	2·86	5·70	40·61
,, ... 3	Sion Mills (Sion House).....	4·52	·31	3·11	3·48	3·12	1·12	4·00	2·29	3·85	4·64	3·60	6·42	40·46
Co. Donegal.... 1	Malin Head *New Site*.....	3·97	·14	1·95	3·87	1·66	1·10	5·14	1·64	3·29	5·58	4·04	3·89	36·27
,, ... 3	Milford (The Manse).....	4·87	·38	2·93	4·76	2·44	·89	4·69	1·20	3·88	5·67	4·36	4·56	40·63
,, ... 3	Dunfanaghy (St. Patrick's).....	5·08	·49	2·34	4·18	2·30	1·13	5·41	1·23	4·50	5·65	4·20	5·30	41·81

Table XXI.—*Monthly Rainfall in* 1932; *the Average,* 1881–1915, *being taken as* 100.

County and River Division.	Station.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year.
		%	%	%	%	%	%	%	%	%	%	%	%	%
London..... 2	St. Pancras (Camden Square).....	86	16	83	148	214	35	81	71	141	199	58	20	95
Kent..... 1	Tenterden (Ashenden).....	146	27	71	143	174	73	158	17	87	210	36	14	95
,, ... 2	St. Peter's.....	89	43	84	166	176	46	177	42	140	209	46	23	106
,, ... 4	Edenbridge (Falconhurst)	158	35	65	147	183	62	117	35	109	194	40	22	94
Sussex..... 1	Compton (Compton House).....	135	14	62	174	215	80	189	44	130	174	55	30	105
,, ... 5	Eastbourne (Wilmington Square)..	91	9	65	146	137	92	183	35	110	189	40	11	91
Hampshire..... 1	Ventnor (Royal National Hosp.)...	115	4	60	147	252	118	149	51	138	192	81	44	112
,, ... 3	Fordingbridge (Oaklands)	87	2	73	198	225	122	180	38	182	129	63	43	102
,, ... 8	Sherborne St. John.....	138	5	84	175	235	73	114	47	154	117	55	27	96
Hertfordshire.... 3	Royston (Therfield Rectory).....	79	22	90	152	269	40	73	109	87	165	73	20	98
Buckinghamshire 3	Slough (Upton)	127	5	78	156	266	42	85	54	102	162	74	21	95
Oxfordshire..... 3	Oxford (Magdalen College).....	81	6	115	129	308	24	126	92	142	159	54	30	105
Northamptonshire 4	Pitsford (Sedgebrook).....	101	22	86	242	257	34	184	83	171	115	105	41	117
Cambridgeshire.. 2	March	44	22	70	193	203	46	117	120	111	133	51	20	95
Essex 4	Chelmsford (County Laboratory)..	75	16	64	153	256	31	101	50	105	200	50	15	90
Suffolk 3	Rendlesham Hall.....	46	31	96	205	220	24	123	54	70	182	54	19	92
,, ... 4	Lowestoft (Secondary School).....	51	42	84	163	170	23	165	101	90	133	66	30	94
,, ... 5	Bury St. Edmunds (Westley H.) ..	54	27	89	203	325	31	112	65	107	165	80	25	104
Norfolk..... 1	Sprowston (Oak Lodge)	48	65	119	172	229	31	131	89	114	137	54	25	101
,, ... 3	Wells (Holkham Hall)	94	49	79	248	219	20	123	102	130	150	72	25	106
Wiltshire 1	Calne (Castleway)	111	4	105	183	371	53	206	25	218	165	63	33	120
Dorsetshire 3	Weymouth (Westham House).....	84	1	89	122	147	126	111	48	153	157	68	35	92
South Devonshire 5	Teignmouth (Den Gardens)	129	0	90	104	213	184	70	66	262	170	66	72	113
,, 6	Cullompton	111	0	95	139	173	82	105	63	237	181	74	69	108
North Devonshire 2	Barnstaple (N. Dev. Athenæum)...	109	4	87	94	151	38	122	37	178	203	73	56	98
,, 3	Okehampton (Uplands).....	174	1	101	132	140	85	125	37	205	210	83	58	111
Cornwall..... 2	Penzance (Morrab Gardens).....	125	1	88	144	220	136	116	53	184	195	60	58	108
,, ... 2	St. Austell (Trevarna).....	114	2	90	142	224	110	140	34	171	190	63	61	106
Somersetshire ... 1	Litton (Sherborne Res.)	141	2	90	156	238	78	150	31	251	170	79	67	115
Gloucestershire .. 7	Cirencester (Gwynfa)	148	4	109	157	300	53	90	46	155	158	81	28	105
Shropshire..... 3	Church Stretton (Wolstaston).....	181	9	145	235	195	48	185	42	130	160	87	52	119
Staffordshire.... 2	Market Drayton (Old Springs).....	121	8	91	171	203	19	139	57	75	132	92	36	94

Table XXI.—*Monthly Rainfall in* 1932; *the Average,* 1881–1915, *being taken as* 100 (*con.*)

County and River Division.	Station.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year.
		%	%	%	%	%	%	%	%	%	%	%	%	%
Worcestershire .. 1	Malvern (Free Library).....	139	6	90	211	333	78	79	124	173	132	64	50	121
Warwickshire ... 1	Alcester (Ragley Hall)	89	7	92	161	391	60	104	76	158	107	55	44	110
,, .. 4	Birmingham (Edgbaston).....	117	17	99	186	318	72	109	92	168	128	87	40	117
Leicestershire ... 4	Belvoir Castle Gardens.....	54	34	93	137	248	77	271	85	104	112	75	28	112
Lincolnshire..... 3	Boston (Black Sluice, Skirbeck) ...	59	45	93	227	202	22	258	72	136	123	75	31	111
,, ... 4	Louth (Westgate)	73	40	89	156	198	18	112	71	103	114	72	35	88
Nottinghamshire 5	Worksop (Hodsock Priory)	59	28	63	148	329	33	139	56	85	117	54	29	95
Derbyshire..... 6	Derby (L.M. & S. Rly.).....	85	16	85	172	343	42	159	70	124	108	77	21	105
S. Lancashire.... 3	Manchester (Whitworth Park).....	135	5	80	153	209	13	115	45	138	206	100	35	102
C. ,, .. 1	Stonyhurst College	131	4	83	140	180	32	126	33	205	176	74	47	100
C. ,, ... 3	Southport (Hesketh Park)	149	2	90	150	172	31	146	54	147	181	77	53	105
N. ,, ... 1	Ulverston (Poaka Beck).....	145	0	105	161	198	43	136	25	116	138	54	83	97
Yorkshire, W.R. . 8	Wakefield (Clarence Park)	87	23	79	132	270	13	96	57	83	107	62	33	86
,, E.R... 3	Hull (Pearson Park)	77	39	94	200	234	23	83	55	97	98	72	38	88
,, N.R... 1	West Witton (Ivy House)	114	19	74	130	159	86	165	41	155	115	69	65	95
,, ,,... 2	Felixkirk (Mount St. John)	81	57	109	74	249	46	224	61	130	123	69	47	107
,, ,, .. 3	York (Museum Gardens)	97	24	101	102	284	79	125	64	123	105	71	50	102
,, ,,... 5	Scarborough.....	51	46	112	115	345	23	67	55	126	99	42	39	90
,, ,,... 6	Middlesbrough (Albert Park).....	73	66	138	55	232	50	138	88	132	97	67	45	100
Northumberland. 3	Newcastle (Leazes Park)	42	58	101	85	171	34	131	86	119	136	37	29	88
,, . 4	Bellingham (Highgreen)	95	24	92	152	109	58	96	44	197	122	51	90	92
,, . 6	Ilderton (Lilburn Tower Gdns.)....	78	38	102	110	129	89	115	42	202	146	27	62	95
Cumberland..... 1	Carlisle (Scaleby).....	147	5	131	135	127	38	208	53	167	161	64	80	110
,, ... 2	Keswick (Derwent Island)	228	1	92	171	91	73	197	26	178	153	69	140	118
Westmorland.... 1	Appleby (Castle Bank)	209	12	106	162	159	98	158	30	149	168	67	119	118
Monmouthshire.. 3	Abergavenny (Larchfield).....	198	3	88	155	182	87	154	85	159	167	46	73	113
Glamorganshire.. 3	Ystalyfera (Wern House)	190	1	67	117	200	87	163	21	179	187	82	77	110
,, .. 5	Cardiff (Ely Pumping Station)	148	1	58	158	174	62	132	27	165	138	55	42	92
Carmarthenshire. 2	Carmarthen (The Friary)	190	1	71	126	181	85	165	13	125	161	66	76	102
Pembrokeshire .. 4	Haverfordwest (Grammar School)..	154	2	67	114	186	91	119	55	97	149	78	78	98
Radnorshire..... 1	Birmingham W.W. (Tyrmyndd)...	164	3	78	170	153	64	131	25	118	169	84	53	98
Montgomeryshire 4	Newtown (Penarth Weir)	188	2	106	196	239	40	171	51	135	152	79	46	112

Table XXI.—*Monthly Rainfall in* 1932; *the Average,* 1881–1915, *being taken as* 100 (*con.*)

County and River Division.	Station.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year.
		%	%	%	%	%	%	%	%	%	%	%	%	%
Montgomeryshire 5	Lake Vyrnwy	171	4	110	247	141	53	207	32	192	163	89	49	113
Flintshire 1	Sealand Aerodrome	110	3	94	186	203	21	122	37	93	158	109	31	96
Merionethshire 4	Dolgelly (Bontddu)	143	2	100	123	191	58	155	31	157	181	84	64	105
Carnarvonshire 2	Llandudno	131	7	69	162	143	47	158	61	129	105	87	68	96
,, 3	Llandwrog (Glynllivon Park)	185	6	71	82	142	73	157	29	107	142	63	111	98
Anglesey	Holyhead (Salt Island)	166	9	57	86	129	65	138	48	100	131	85	104	95
Isle of Man	Douglas (Borough Cemetery)	119	5	56	153	166	89	105	126	145	184	61	114	110
Channel Islands	Guernsey, St. Peter Port (Grange Rd.)	85	4	99	146	155	72	127	17	177	141	62	42	93
Wigtownshire 3	Port William (Monreith)	94	0	98	166	140	53	97	54	211	149	67	120	102
Kirkcudbrightshire 3	Dalry (Glendarroch)	163	2	67	186	120	59	97	49	165	128	69	147	104
,, 4	Auchencairn (Torr House)	175	2	90	181	118	45	116	51	153	153	87	108	106
Dumfriesshire 3	Dumfries (Crichton Roy. Inst.)	173	2	105	114	100	81	101	49	159	162	76	179	109
Roxburghshire 3	Hawick (Wolfelee)	152	21	89	117	117	77	118	43	174	153	49	131	102
Peebleshire 2	Stobo Castle	207	11	96	179	108	55	122	32	179	187	78	165	118
Berwickshire 4	Marchmont House	95	32	120	113	94	61	79	23	147	158	40	64	86
East Lothian 5	North Berwick Reservoir	84	21	127	91	121	65	84	7	102	181	67	109	89
Midlothianshire 5	West Calder (Addiewell)	248	6	74	178	136	60	108	26	151	152	87	214	121
,, 5	Edinburgh (Univ. Eng. Lab.)	160	11	138	129	145	58	74	13	115	208	77	207	109
Ayrshire 8	Girvan (Pinmore)	120	1	92	118	111	69	147	41	146	153	86	140	103
,, 13	Glen Afton (Ayr Sanatorium)	218	3	73	172	108	78	95	26	183	176	111	158	118
Renfrewshire 3	Shaws W.W. (Loch Thom)	188	1	51	158	80	64	98	69	119	155	115	178	110
Argyllshire 2	Loch Sunart (Glenborrodale)	139	8	80	143	54	83	124	71	127	167	92	82	99
,, 8	Lochgilphead (Poltalloch)	182	2	116	152	119	71	114	81	100	175	105	113	112
,, 11	Inveraray Castle Gardens	185	0	77	177	90	43	158	67	133	170	127	146	119
,, 14	Islay (Eallabus)	141	2	109	156	88	72	130	77	127	155	82	99	103
Kinross-shire 2	Loch Leven Sluice	98	4	82	122	156	73	119	11	104	174	54	164	96
Fifeshire 3	Leuchars (Training Base)	90	4	114	145	137	68	123	12	82	239	59	123	100
Perthshire 1	Loch Dhu	151	1	55	179	107	62	111	38	90	137	98	150	100
,, 7	Crieff (Strathearn Hydro)	145	5	89	154	127	44	147	39	72	149	56	180	100
,, 14	Blair Atholl (Blair Castle Gdns.)	133	5	103	177	138	37	171	54	81	214	71	132	110
Angus 4	Montrose (Sunnyside Asylum)	66	9	134	153	140	60	136	25	115	247	50	75	102
Aberdeenshire 1	Balmoral (Castle Gdns.)	151	16	85	189	190	52	127	30	109	228	60	103	112
,, 2	Aberdeen (King's College)	84	15	172	157	121	66	121	77	162	220	56	44	108

Table XXI.—*Monthly Rainfall in* 1932 ; *the Average,* 1881–1915, *being taken as* 100 (*con.*)

County and River Division.	Station.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept	Oct.	Nov.	Dec.	Year.
		%	%	%	%	%	%	%	%	%	%	%	%	%
Aberdeenshire ... 4	New Deer Schoolhouse	76	29	167	204	86	24	100	36	163	213	60	40	101
Morayshire..... 2	Gordon Castle.....	82	32	118	170	98	14	82	48	134	207	107	62	98
,, ... 3	Grantown-on-Spey	93	28	130	227	164	23	129	34	153	195	101	82	112
Nairnshire 2	Nairn (Golf Course)	139	24	129	209	146	6	96	83	101	195	117	84	110
Inverness-shire .. 3	Alvie Manse	129	18	100	195	163	11	146	35	108	226	114	108	114
,, .. 6	Loch Ness (Foyers).....	174	15	97	218	148	8	141	45	121	200	172	119	124
,, .. 7	Loch Quoich (Glenquoich)	157	5	51	150	72	52	167	84	150	167	148	84	109
,, ..13	Arisaig House.....	142	15	75	153	51	65	150	79	134	187	118	88	108
,, ..17	Glenleven (Corrour)	203	2	54	157	95	27	181	49	149	153	146	167	122
Ross and Cromarty 4	Alness (Ardross Castle).....	146	11	118	237	130	24	94	48	135	154	109	79	107
,, 7	Ullapool	198	25	77	162	62	31	113	100	139	112	120	69	102
,, 9	Achnashellach.....	176	12	56	135	57	48	133	90	178	95	120	87	103
,, 10	Stornoway	202	13	72	128	59	67	93	115	120	104	79	61	94
Sutherlandshire.. 1	Lairg.....	155	14	103	177	115	12	111	73	151	114	104	50	98
,, .. 4	Tongue	150	35	122	161	98	31	158	101	164	121	95	53	107
,, .. 5	Loch More (Achfary).....	203	40	119	186	80	47	125	104	257	107	99	67	118
Caithness-shire .. 2	Wick	139	24	90	149	68	36	114	99	153	167	93	65	102
Shetland	Unst (Baltasound, Halligarth)	98	32	94	159	77	74	170	103	186	105	82	68	100
Co. Cork..... 6	Dunmanway (The Rectory).....	136	12	75	80	237	70	79	56	82	99	54	130	91
,, ,, ... 7	Cork (University College)	128	5	106	95	188	55	99	68	88	97	41	159	94
,, ,, ... 9	Mallow (Longueville).....	145	7	118	112	157	69	164	94	91	89	49	154	104
,, Kerry..... 3	Cahirciveen (Valentia Obsy.).....	133	9	85	101	156	92	125	62	62	93	39	124	88
,, ,, ... 3	Gap of Dunloe (Gearhameen)	147	4	69	141	141	70	108	53	77	91	58	153	94
,, Waterford... 3	Waterford (Gortmore)	116	11	81	72	176	82	101	56	59	128	51	175	94
,, Tipperary ... 1	Nenagh (Castle Lough).....	130	11	58	109	109	61	132	97	156	110	56	129	98
,, ,, ... 3	Cashel (Ballinamona)	101	2	51	101	148	45	152	66	75	92	49	141	86
,, Limerick.... 2	Foynes (Coolnanes)	122	4	73	120	69	61	115	65	138	98	56	110	86
,, Wexford 4	Gorey (Courtown House).....	130	6	81	142	249	56	135	75	76	102	43	196	107
,, Kilkenny.... 2	Kilkenny Castle.....	109	7	62	88	134	67	154	57	63	106	49	131	87
,, Carlow..... 3	Hacketstown Rectory	90	12	68	123	196	55	158	61	84	88	52	154	95
,, Leix..... 2	Abbey Leix (Blandsfort).....	137	11	55	125	126	57	145	83	94	103	58	148	97

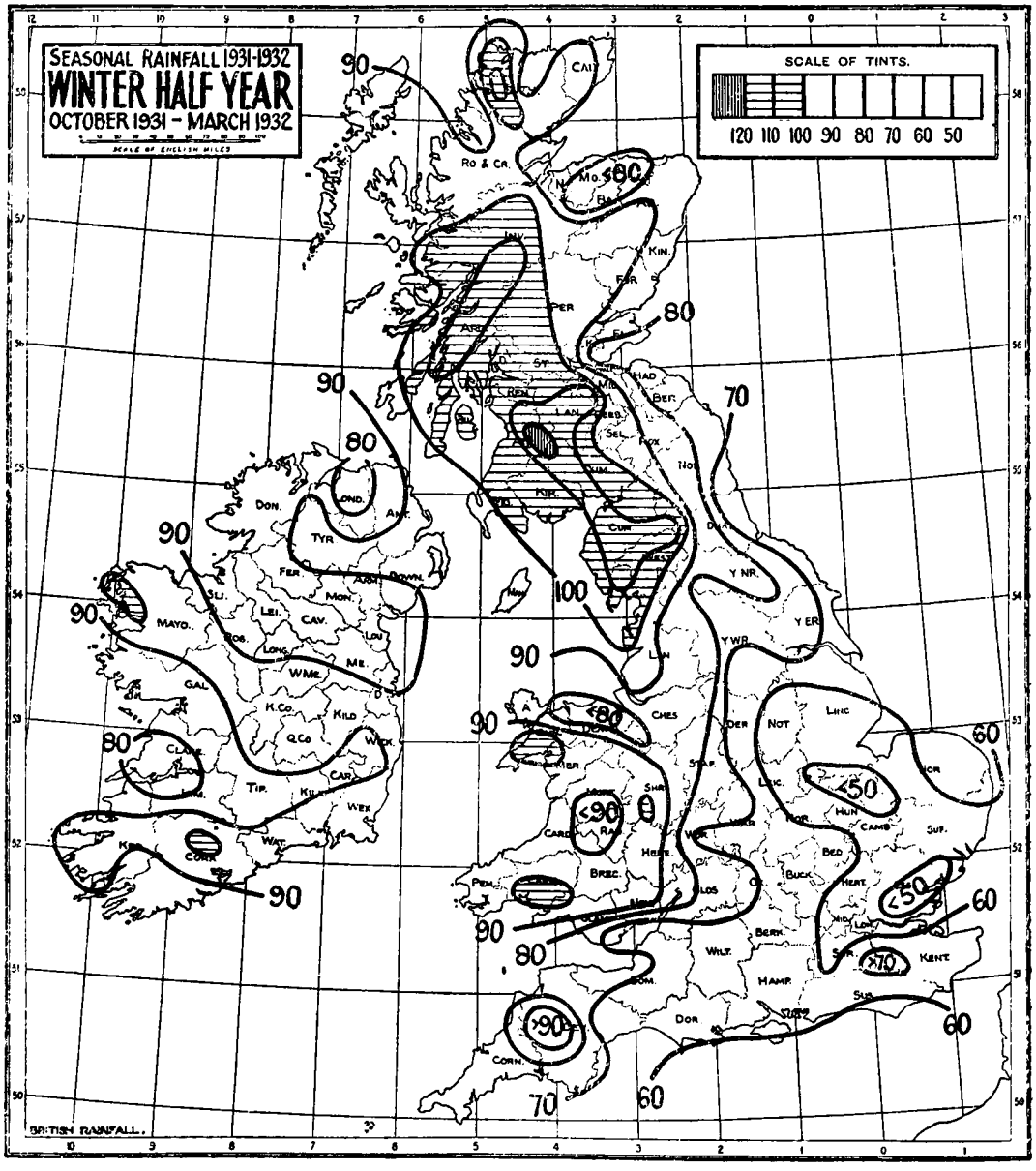
Table XXI.—*Monthly Rainfall in* 1932; *the Average,* 1881–1915, *being taken as* 100 (*con.*)

County and River Division.	Station.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year.
		%	%	%	%	%	%	%	%	%	%	%	%	%
Co. Offaly 1	Birr Castle	139	10	53	103	123	25	125	38	162	113	41	132	88
,, Kildare 2	Straffan House.....	152	9	45	132	190	41	206	68	126	127	44	164	109
,, Dublin..... 3	Balbriggan (Ardgillan) No. 1	90	12	62	116	181	58	155	79	99	101	34	157	96
,, Meath 4	Kells (Headfort).....	110	11	59	95	130	45	157	34	130	110	59	141	90
,, Westmeath.. 1	Mullingar (Belvedere).....	133	7	54	113	136	40	126	48	156	137	52	141	95
,, Longford.... 2	Castle Forbes Gardens	134	5	62	101	122	26	144	73	115	115	72	141	94
,, Galway 3	Ballynahinch Castle	111	4	52	108	72	77	145	83	102	75	54	103	82
,, ,, ... 5	Ahascragh (Clonbrock).....	140	2	67	125	87	36	129	59	140	75	56	128	88
,, Mayo..... 3	Blacksod Point.....	177	3	63	147	67	91	143	74	114	97	92	125	101
,, ,, ... 4	Westport House.....	167	8	65	141	93	100	143	35	122	91	76	122	96
,, ,, ... 5	Delphi Lodge	132	4	58	118	108	95	151	42	106	71	81	118	89
,, Sligo 2	Collooney (Markree Observatory)..	141	5	67	173	101	79	177	59	137	132	77	132	106
,, Cavan 1	Belturbet (Cloverhill)	114	1	76	116	95	33	158	66	141	111	58	113	91
,, Armagh..... 5	Armagh Observatory	121	5	77	113	113	34	182	67	126	103	72	158	99
,, Down..... 1	Newry (Bridge Street House).....	93	4	72	129	128	53	126	63	97	98	62	152	90
,, ,, 2	Seaforde	94	5	71	136	146	63	159	122	99	106	43	150	100
,, ,, ... 4	Donaghadee (Coastguard Station) .	99	5	67	157	99	52	198	76	134	108	65	163	103
,, Antrim 5	Ballymena (Harryville).....	116	7	83	168	76	80	122	51	122	130	77	136	97
,, Londonderry 5	Londonderry (Creggan Reservoir)..	141	8	93	178	83	48	134	53	127	177	120	116	106
,, ,, 5	Limavady (Drenagh).....	107	6	72	162	54	42	132	59	100	121	83	103	87
,, Tyrone..... 3	Omagh (Edenfel)	142	8	77	125	114	59	160	51	157	110	75	135	101
,, Donegal..... 3	Milford (The Manse)	130	12	86	187	98	32	142	29	119	142	100	97	97
England	(general mean*, 57 stations).....	**105**	**20**	**91**	**155**	**224**	**58**	**137**	**59**	**143**	**152**	**65**	**43**	..
Wales	(,, ,, 13 ,,).....	**164**	**3**	**80**	**148**	**174**	**64**	**152**	**40**	**135**	**154**	**77**	**67**	..
England and Wales..	(,, ,, 70 ,,).....	**116**	**17**	**89**	**154**	**215**	**59**	**140**	**55**	**142**	**152**	**68**	**48**	..
Scotland	(,, ,, 43 ,,).....	**147**	**13**	**98**	**162**	**110**	**50**	**121**	**56**	**140**	**168**	**91**	**111**	..
Ireland	(,, ,, 35 ,,).....	**126**	**7**	**70**	**124**	**129**	**59**	**142**	**63**	**111**	**107**	**61**	**138**	..
British Isles †.....	(,, ,, 150 ,,).....	**127**	**13**	**87**	**149**	**164**	**57**	**135**	**57**	**134**	**146**	**73**	**87**	..

*The "general" values given in the last six rows are obtained by taking the means of the percentage values for the stations
† Including Isle of Man and St. Peter Port, Guernsey. ‡ See Table XXIII.

9. SEASONAL RAINFALL, 1931-32.

There are definite advantages in considering the rainfall of the winter and summer separately. One defect of the calendar year

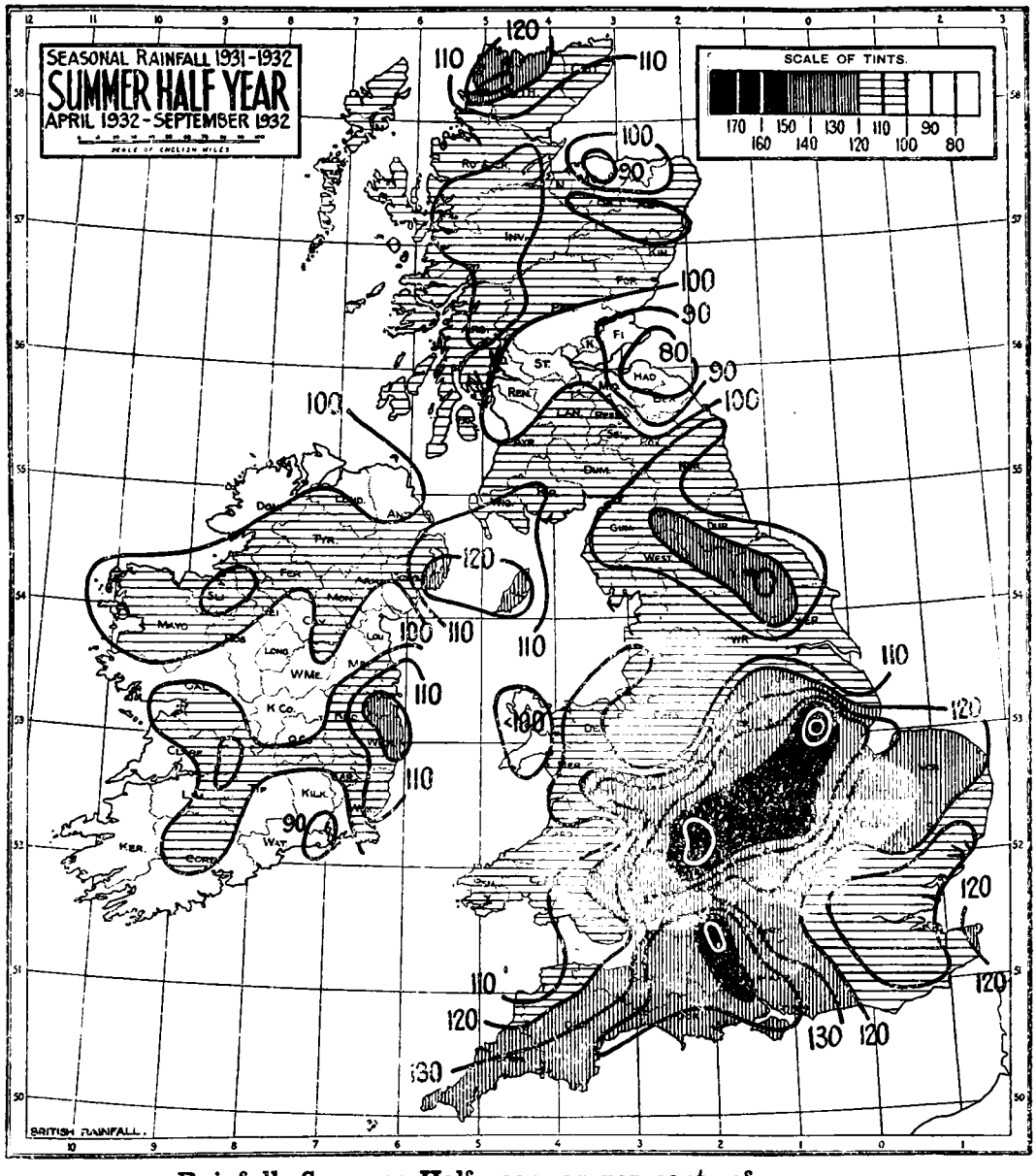

SEASONAL RAINFALL 1931-1932
WINTER HALF YEAR
OCTOBER 1931 - MARCH 1932
SCALE OF TINTS.
120 110 100 90 80 70 60 50
BRITISH RAINFALL.

Rainfall, Winter Half-year, as per cent. of average.

as a unit of time for rainfall purposes is that part of a winter is included in one calendar year and the other part in another year.

Winter rainfall has a special economic importance, for, except in the wettest areas, the summer rainfall is, for the most part, lost by evaporation or absorbed by vegetation.

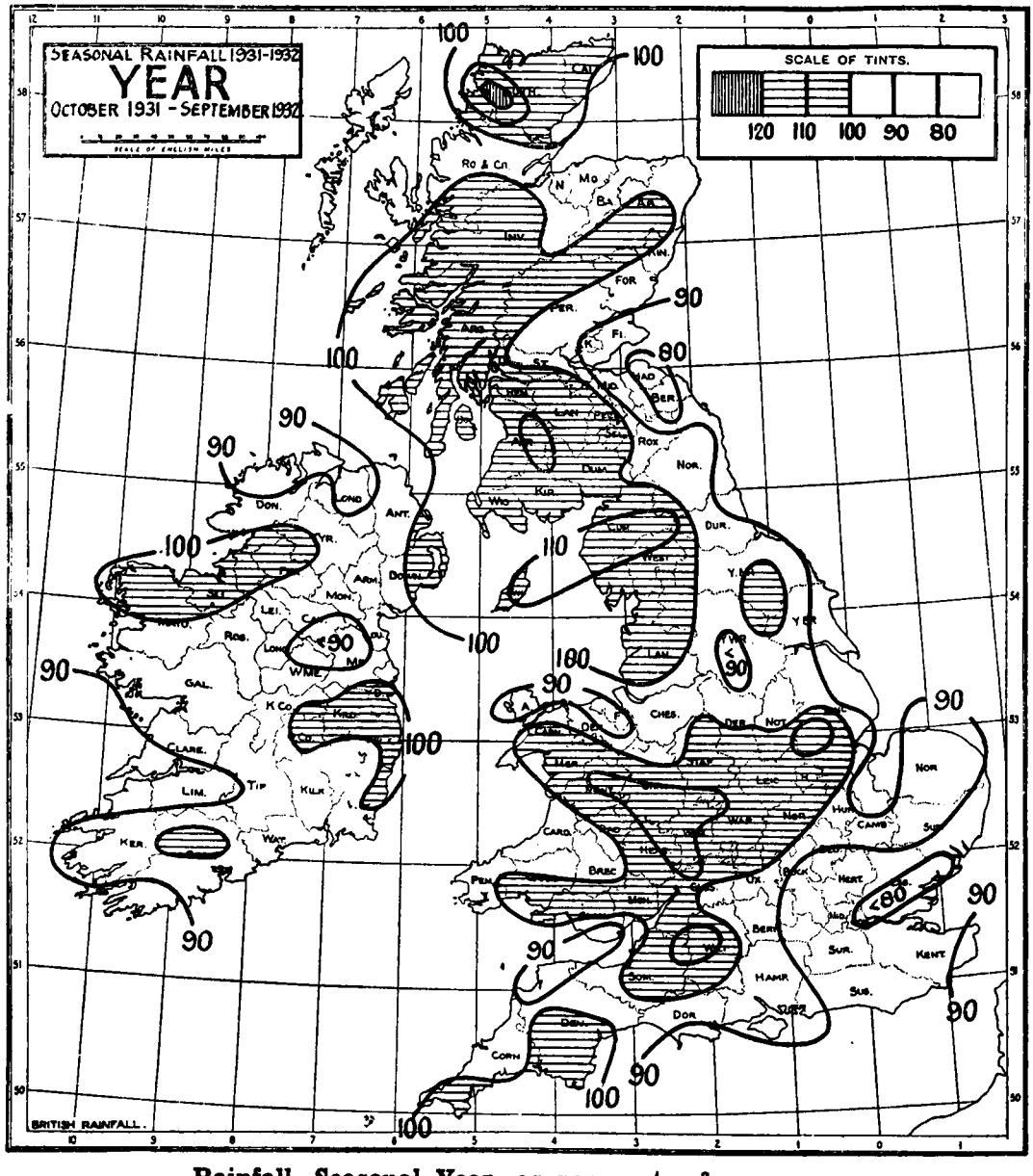
In this section the rainfall of the winter season, 1st October, 1931, to 31st March, 1932, and of the summer season, 1st April,


SEASONAL RAINFALL 1931-1932
SUMMER HALF YEAR
APRIL 1932 - SEPTEMBER 1932
SCALE OF TINTS.
170 160 150 140 130 120 110 100 90 80
BRITISH RAINFALL.

Rainfall, Summer Half-year, as per cent. of average.

1932, to 30th September, 1932, is dealt with, as well as the rainfall of the whole seasonal year, 1st October, 1931, to 30th September, 1932. It is natural to associate a summer season with the preceding rather than with the following winter season, since the water required in summer for replenishing streams and for the needs of animal and

vegetable life is derived, in part, from that which has been naturally stored during the previous winter season. One section of *British Rainfall* has been devoted to this subject since the volume for 1908, and three maps and Table XXII similar to those introduced in that volume, are now reproduced.



Rainfall, Seasonal Year, as per cent. of average.

Table XXII contains rainfall values for each of these two seasons for the stations shown in Section 8 on Monthly Rainfall. The values are expressed as percentages of the average fall for the season and the station. The table gives in the fourth column the corresponding percentages for each station for the whole of the seasonal year. These last figures are not always the mean of the percentages for

the two seasons, but often show a bias towards the winter value rather than that of the summer. This is due to the fact that the average rainfall for the winter is, in general, greater than that for the summer.

The *winter* half-year comprised two wet months, November, 1931, and January, 1932, while October and December, 1931, and March, 1932, were dry and February, 1932, unusually dry. The general rainfall during the winter over the whole country was 15 per cent. less than the average. The winter of 1931 to 1932 was therefore drier than that of any winter since that of 1908 to 1909, when the general rainfall was 76 per cent. of the average. The rainfall was most striking over England where the general deficiency was 28 per cent., the corresponding percentage deficiency for Wales being 10, Scotland 4, and Ireland 10. The map shows that the rainfall of the winter, 1931 to 1932, was less than the average over most of the British Isles apart from a large area stretching from the English Lake District to the Caledonian Canal. The largest percentage values were 121 at Glenafton (Ayr Sanatorium) and 120 at Glenleven (Corrour). At the former station the total rainfall was 37·09 inches or 6·39 inches in excess, and at the latter 52·71 inches or 8·90 inches in excess of the average. Only small areas in Wales, Scotland and Ireland recorded less than 80 per cent. but there was less than 70 per cent. over the whole of the south-eastern half of England. The smallest percentage values were 47 per cent. at Chelmsford and 48 per cent. at March, in Cambridgeshire. At Chelmsford the total rainfall was 5·46 inches or 6·20 inches less than the average, and less than that recorded in any winter since before 1870, with the one exception of that of 1879 to 1880, when the total was 4·75 inches. The next smallest percentage value was 51 at Belvoir Castle Gardens. The general rainfall of the winter 1931 to 1932 over the British Isles amounted to 20·0 inches, which is 3·4 inches less than the average.

The *summer* half-year comprised four wet months and two dry months June and August. The general rainfall over the whole country was 13 per cent. in excess of the average, but the total rainfall was less than that during either of the two preceding summers. The main features of the distribution over England and Wales, as shown on the percentage map, are rainfall totals in excess of the average in most districts and large areas in Wiltshire and stretching from Malvern almost to the Wash with more than 150 per cent. The total rainfall exceeded 160 per cent. in parts of Lincolnshire, Worcester and Wiltshire. At Cranwell Aerodrome the summer rainfall was about 179 per cent. of the average, due largely to the intense rainfalls of July 11th, when 4·96 inches was recorded in 120 minutes (*see* Section 6) and July 13th. The percentage values at Malvern and Manchester were 161 and 103 respectively and the greater value at

Malvern was due mainly to the heavier rains of May 1st and 20th, June 28th to 30th and August 20th, when the former station recorded 1·76, 1·58, 1·75 and 2·12 inches compared with ·11, ·47, ·25 and ·30 inch at the latter station. The percentage values over Scotland were more uniform, varying from rather less than 80 per cent. over East Lothian to about 115 per cent. in parts of Aberdeenshire and Inverness-shire. In Douglas, Isle of Man, the rainfall of the summer half-year was 130 per cent. of the average, the rainfall of each month except June exceeding the average. The rainfall was in excess of the average over two broad strips across Ireland, one stretching from Connemara to Co. Down and the other from the mouth of the Shannon to the Wicklow Mountains. The general rainfall of the summer of 1932 over the British Isles amounted to 20·5 inches, or 3·1 inches less than in 1931, but 2·5 inches in excess of the average.

The map for the *seasonal year* naturally presents features similar to those of the seasonal maps. Thus the large excess for the year, over a large area from Malvern to Lake Vyrnwy, is accounted for by the unusually wet summer in that region, while the small percentage value in Essex is due more especially to the dry winter in that region. The total rainfall for the seasonal year was less than 80 per cent. in the south-east of Scotland and in the south-eastern half of Essex. These small percentage values were mainly due to the dry winter, but in the south-east of Scotland the rainfall of the summer was also markedly less than the average. The total rainfall exceeded 110 per cent. in parts of Lincolnshire and Wiltshire, over a large area from Lake Vyrnwy to Birmingham, over parts of the English Lake District, the Isle of Man, Ayrshire, Sutherlandshire and Co. Wicklow. The total rainfall at Cranwell Aerodrome was about 118 per cent. The large percentage at Loch More (Achfary) in Sutherlandshire of 123 was due especially to a sequence of wet days from December 22nd, 1931, to January 19th and August 30th to September 28th when 19·79 and 15·07 inches respectively was recorded, or nearly as much rain as falls there normally in six months. The general rainfall over the British Isles during the seasonal year was 40·5 inches, 8·4 less than that for the seasonal year 1930 to 1931 and 12·7 inches less than that for 1929 to 1930.

In *British Rainfall*, 1927, p. 125, a table was reproduced of the serial general values of seasonal rainfall for the British Isles from 1881 to 1927 and these statistics have been continued back to 1870. The changes in the seasonal distribution of rainfall become more apparent by taking the mean of successive groups of 10 years. These mean values show that initially the excesses were contributed mainly by wet summers; then followed a period with dry winters; from 1893 to 1910 the rainfall of both the summers and winters approxi-

mated closely to the average ; subsequently wet winters predominated, while in recent years the excesses have been contributed mainly by wet summers.

In *British Rainfall*, 1926, p. 125, values are given for England and Wales, Scotland and Ireland separately back to 1906-1907. The rainfall of the winter 1931 to 1932, with 75 per cent., was most striking over England and Wales, being less than that for any winter back to 1908 to 1909 when the general fall was 73 per cent. In Scotland the summer of 1931 was the eleventh consecutive wet summer. The rainfall of the winter was below the average over Ireland for the first time in six years.

Table XXII.—*Seasonal Rainfall*, 1931–32, *in relation to the Average*, 1881–1915.

Station.‡	Winter 6 Months, Oct. 1931–Mar. 1932. Per cent. of Average.	Summer 6 Months, Apl. 1932–Sept. 1932. Per cent. of Average.	Twelve Months, Oct. 1931–Sept. 1932. Per cent. of Average.	Station.‡	Winter 6 Months, Oct. 1931–Mar. 1932. Per cent. of Average.	Summer 6 Months, Apl. 1932–Sept. 1932. Per cent. of Average.	Twelve Months, Oct. 1931–Sept. 1932. Per cent. of Average.
St. Pancras (Camden Square)....	54	109	80	St. Austell (Trevarna).....	72	131	95
Tenterden (Ashenden).....	69	103	83	Litton (Sherborne Res.).....	71	142	102
St. Peter's	64	122	91	Cirencester (Gwynfa).....	79	124	99
Edenbridge (Falconhurst)	73	104	86	Church Stretton (Wolstaston)...	100	133	115
Compton (Compton House).....	60	133	91	Market Drayton (Old Springs)...	83	105	94
Eastbourne (Wilmington Square).	58	114	80	Malvern (Free Library).....	80	161	119
Ventnor (Royal National Hosp.)..	60	140	92	Alcester (Ragley Hall).....	63	151	107
Fordingbridge (Oaklands).....	60	152	96	Birmingham (Edgbaston).....	75	151	113
Sherborne St. John.....	61	128	90	Belvoir Castle Gardens.....	51	157	103
Royston (Therfield Rectory).....	60	116	88	Boston (Black Sluice, Skirbeck)..	56	149	102
Slough (Upton).....	60	112	84	Louth (Westgate).....	61	105	82
Oxford (Magdalen College).....	65	131	97	Worksop (Hodsock Priory).....	59	130	94
Pitsford (Sedgebrook).....	62	156	108	Derby (L.M.& S. Rly)	63	145	104
March	48	126	88	Manchester (Whitworth Park)...	88	103	95
Chelmsford (County Laboratory).	47	106	75	Stonyhurst College.....	88	104	100
Rendlesham Hall.....	55	108	81	Southport (Hesketh Park).....	99	113	106
Lowestoft (Secondary School)....	63	117	89	Ulverston (Poaka Beck).....	110	106	108
Bury St. Edmunds (Westley H.)..	55	130	92	Wakefield (Clarence Park).....	69	104	87
Sprowston (Oak Lodge).....	69	125	97	Hull (Pearson Park).....	69	106	87
Wells (Holkham Hall).....	63	129	96	West Witton (Ivy House).....	71	120	92
Calne (Castleway)	69	163	113	Felixkirk (Mount St. John).....	88	131	109
Weymouth (Westham House)....	60	116	82	York (Museum Gardens).....	78	127	103
Teignmouth (Den Gardens).....	78	144	104	Scarborough.....	67	116	90
Cullompton.....	69	129	94	Middlesbrough (Albert Park)....	71	118	95
Barnstaple (N. Dev. Athenæum)..	71	101	83	Newcastle (Leazes Park).....	65	104	85
Okehampton (Uplands).....	95	129	108	Bellingham (Highgreen).....	85	104	93
Penzance (Morrab Gardens).....	78	138	101	Ilderton (Lilburn Tower Gardens)	75	113	92

‡ For Counties see Table XXI, pp. 123–127.

Table XXII.—*Seasonal Rainfall, 1931–32, in relation to the Average, 1881–1915—(con.).*

Station.‡	Winter 6 Months, Oct. 1931–Mar. 1932. Per cent. of Average.	Summer 6 Months, Apl. 1932–Sept. 1932. Per cent. of Average.	Twelve Months, Oct. 1931–Sept. 1932. Per cent. of Average.	Station.‡	Winter 6 Months, Oct. 1931–Mar. 1932. Per cent. of Average.	Summer 6 Months, Apl. 1932–Sept. 1932. Per cent. of Average.	Twelve Months, Oct. 1931–Sept. 1932. Per cent. of Average.
Carlisle (Scaleby)	106	119	102	Girvan (Pinmore)	101	104	102
Keswick (Derwent Island)	114	119	116	Glen Afton (Ayr Sanatorium)	121	104	113
Appleby (Castle Bank)	113	121	117	Shaws W.W. (Loch Thom)	107	97	103
Abergavenny (Larchfield)	99	136	104	Loch Sunart (Glenborrodale)	100	103	101
Ystalyfera (Wern House)	95	119	105	Lochgilphead (Poltalloch)	112	104	108
Cardiff (Ely Pumping Station)	69	112	88	Inveraray Castle Gardens	108	112	110
Carmarthen (The Friary)	102	108	104	Islay (Eallabus)	98	109	103
Haverfordwest (Grammar School)	94	105	98	Loch Leven Sluice	77	90	83
Birmingham W.W. (Tyrmyndd)	86	105	93	Leuchars (Training Base)	83	88	85
Newtown (Penarth Weir)	87	132	107	Loch Dhu	101	94	98
Lake Vyrnwy	96	136	112	Crieff (Strathearn Hydro)	94	91	93
Sealand Aerodrome	78	101	89	Blair Atholl (Blair Castle Gardens)	98	107	102
Dolgelley (Bontddu)	98	113	105	Montrose (Sunnyside Asylum)	86	102	93
Llandudno	73	113	91	Balmoral Castle Gardens	91	114	101
Llandwrog (Glynllivon Park)	108	95	103	Aberdeen (King's College)	86	117	100
Holyhead (Salt Island)	83	92	87	New Deer Schoolhouse	86	100	92
Douglas (Borough Cemetery)	96	130	110	Gordon Castle	78	87	82
Guernsey, St. Peter Port	61	115	82	Grantown-on-Spey	70	115	92
Port William (Monreith)	101	110	105	Nairn (Golf Course)	81	102	92
Dalry (Glendarroch)	103	110	106	Alvie Manse	91	105	98
Auchencairn (Torr House)	106	106	106	Loch Ness (Foyers)	101	112	105
Dumfries (Crichton Roy. Inst.)	112	97	105	Loch Quoich (Glenquoich)	105	116	109
Hawick (Wolfelee)	92	105	98	Arisaig House	101	109	104
Stobo Castle	99	107	102	Glenleven (Corrour)	120	111	107
Marchmont House	72	82	77	Alness (Ardoss Castle)	89	111	98
North Berwick Reservoir	79	72	76	Ullapool	87	107	95
West Calder (Addiewell)	114	103	109	Achnashellach	96	114	103
Edinburgh (Univ. Engin. Lab.)	98	80	88				

‡ For Counties see Table XXI, pp. 123–127.

Table XXII.—*Seasonal Rainfall*, 1931–1932, *in relation to the Average*, 1881–1915—(*con.*).

Station.‡	Winter 6 Months, Oct. 1931–Mar. 1932. Per cent. of Average.	Summer 6 Months, Apl. 1932–Sept. 1932. Per cent. of Average.	Twelve Months, Oct. 1931–Sept. 1932. Per cent. of Average.
Stornoway	95	101	98
Lairg	98	108	102
Tongue	87	124	102
Loch More (Achfary)	112	140	123
Wick	89	106	97
Unst (Baltasound, Halligarth)	96	132	110
Dunmanway (The Rectory)	85	97	89
Cork (University College)	92	95	93
Mallow (Longueville)	101	104	106
Cahirciveen (Valentia Observatory)	96	96	96
Gap of Dunloe (Gearhameen)	87	96	91
Waterford (Gortmore)	95	87	91
Nenagh (Castle Lough)	89	111	99
Cashel (Ballinamona)	85	97	91
Foynes (Coolnanes)	75	94	83
Gorey (Courtown House)	96	118	105
Kilkenny Castle	89	93	91
Hacketstown Rectory	81	110	94
Abbey Leix (Blandsfort)	99	104	101
Birr Castle	93	91	97
Straffan House	96	124	110
Balbriggan (Ardgillan) No. 1	86	113	99
Kells (Headfort)	84	95	89
Mullingar (Belvedere)	96	99	97
Castle Forbes Gardens	87	96	91
Ballynahinch Castle	86	98	91
Ahascragh (Clonbrock)	90	95	92
Blacksod Point	103	104	104
Westport House	98	102	99
Delphi Lodge	89	100	94
Collooney (Markree Observatory)	89	118	102
Belturbet (Cloverhill)	82	101	91
Armagh Observatory	90	105	97
Newry (Bridge Street House)	89	97	93
Seaforde	90	122	104
Donaghadee (Coastguard Station)	97	118	107
Ballymena (Harryville)	89	99	94
Londonderry (Creggan Reservoir)	90	100	95
Limavady (Drenagh)	71	90	80
Omagh (Edenfel)	93	108	100
Milford (The Manse)	81	96	88
General Values* **England**	**72**	**124**	**96**
Wales	**90**	**113**	**99**
England and Wales	**75**	**122**	**96**
Scotland	**96**	**105**	**99**
Ireland	**90**	**102**	**96**
British Isles†	**85**	**113**	**97**

* Obtained by taking the means of the percentage values for the stations.

† Including Isle of Man and St. Peter Port, Guernsey.

‡ For Counties see Table XXI, pp. 123–127.

10. THE TOTAL FALL OF RAIN IN 1932 AND ITS RELATION TO THE AVERAGE.

The total rainfall for the year is given for over 5,000 stations in the British Isles in the General Table, Part III of this volume. As many of these totals as practicable have been plotted on a map on the scale of 19 miles to the inch. In the districts of relatively few rainfall stations, each record has been plotted, while in the more thickly represented areas some have had to be omitted. Isohyetal lines, or lines of equal rainfall amount, have been drawn giving a cartographical presentation of the distribution of the rainfall of the year over the land. The map is reproduced on a smaller scale as the folding plate opposite this page. Such a map is dominated by the orography of the country to such an extent that not only is it complicated in itself, but it also closely resembles its predecessors, the differences being noticeable only after detailed examination and comparison. The characteristics of a particular year are brought out better by a map such as that opposite p. 136, in which the percentage ratio of the rainfall for the year to the local average is shown. It has been coloured so that blue areas represent regions where the fall in 1932 was more than the average, and red areas represent regions where the fall in 1932 was less than the average. The statistics on which the latter map is based are set out in Tables XXI and XXIV.

The percentage map for 1932 shows by means of continuous lines the places where the values of the rainfall were, respectively, 90, 100, 110, 120 and 130, per cent. of the average values.

The total rainfall was less than the average over appreciable areas in each country.

In Ireland the rainfall reached or exceeded the average only over small areas, mainly in parts of the north and east, and was everywhere less than 110 per cent. The greater part of the country received between 90 and 100 per cent. while less than 90 per cent. occurred over large areas in the south-west, stretching as far east as Kilkenny, Parsonstown and Athlone. In Scotland the rainfall was less than the average along the east coast and over part of the islands to the west. The percentage values varied from less than 90 per cent. in parts of East Lothian and Berwick to more than 120 per cent. in the neighbourhood of Loch Ness, to the south of Ben Nevis, near Glasgow and over large areas in the Southern Uplands. The distribution over England and Wales was more complicated. The most striking feature was perhaps the large area with more than 110 per cent. stretching across the country from the Black Mountains and Salisbury Plain to the Wash. Locally in this region there was more than 120 per cent. including a value of 124 per cent. at Cranwell Aerodrome, where the total for July was as much as 9.89 inches, due largely to the thunderstorm rains of the 11th and 13th, amounting

to 5.14 and 2.40 inches respectively. More than 120 per cent. was also recorded in Borrowdale, Cumberland, at Burnhope to the south of Alston, near Bala and over Dartmoor. The marked contrast between the percentages at the head and at the mouth of the River Tyne are also worthy of comment. At Burnhope the rainfall was 120 per cent. of the average compared with 84 per cent. at Tynemouth, the rainfall varying from 75.1 inches at Burnhope (Lodgegill Mine) to 21.2 inches at Tynemouth (Tyne Pier Works). Less than 90 per cent. was recorded over a number of areas, notably near Newcastle-on-Tyne, Leeds, Harrogate, Wakefield and Huddersfield, between Hull and Louth, Yarmouth, St. Albans, Enfield, Brighton, Worthing and to the south of Bideford.

The smallest percentage values in Tables XXI and XXIV are 82 at Ballynahinch Castle, 83 at Biggin Hill (Aerodrome) to the north of Westerham, Spurn Head and Morpeth (Cockle Park), while the largest percentages are 131 at Corwen (Rug Gardens) in North Wales, 127 at Maybole (Culzean Castle Gardens) and 124 at Loch Ness (Foyers). The rainfall of the year approximated therefore fairly closely to the average in all parts of the country and years both wetter and drier than 1932 are on record for all parts of the British Isles.

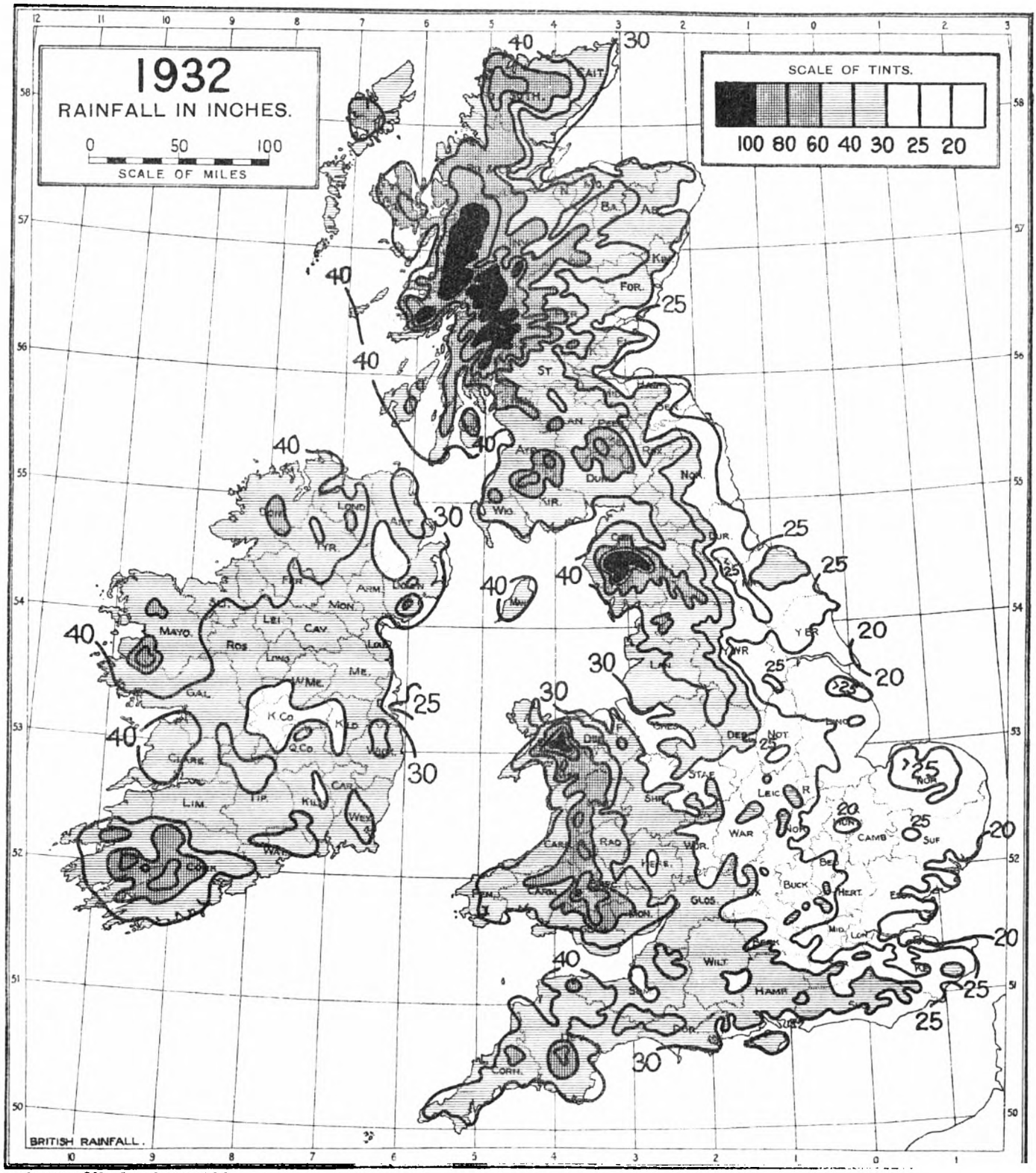
Use is made of the percentage values at the 271 stations of both Tables XXI and XXIV to derive general values of the total rainfall for the year over the British Isles and over the larger divisions separately. These values are set out in the following table :—

TABLE XXIII.—*General Rainfall, 1932, compared with average.*

Countries.	No. of Stations.	Average 35 years 1881-1915.	1932	
			Per cent.	Rainfall.
		in.		in.
England	136	32·67	102	33·3
Wales.....	24	50·14	105	52·6
England and Wales.....	160	35·23	103	36·3
Scotland	61	50·32	108	54·3
Ireland	48	43·30	95	41·1
British Isles†	271	41·41	102	42·2

† Including Isle of Man and Guernsey, St. Peter Port.

For the British Isles as a whole, the rainfall of 1932, was 2 per cent. in excess of the average. The total rainfall was most striking over Ireland, where it was less than that in any year since 1922, with 92 per cent. That over England and Wales was less than that in any of the preceding ten years apart from 1929 and 1926 with 100 and 102 per cent. respectively. The total rainfall over Scotland



H.M. Stationery Office Press Kingsway W.C.2

AIR MINISTRY, METEOROLOGICAL OFFICE.

[Face page 128]

was comparable with that of 1931 and 1930, while that over the British Isles was similar to that of 1929 and 1926.

The rainfall over the British Isles as a whole has exceeded the average for the period 1881 to 1915 in each of the last ten years. The accumulated excess has amounted to 101 per cent. of the average annual amount. In the last ten years we have received, therefore, as much rain as falls on the average in 11 years. So long a run of wet years has not occurred since comparable statistics became available in 1868. The next wettest ten consecutive years were 1874 to 1883. The accumulated excess during this period was less than that just recorded, being 81 per cent.

The general distribution of the actual rainfall, as shown on the folding plate, is similar to that for other years. The total for the year was less than 20 inches in the neighbourhood of the Thames Estuary, along the north coast of Kent and the coasts of Essex and Suffolk as far north as Aldeburgh, as well as near Huntingdon and Spurn Head. More than 100 inches was recorded in the English Lake District, over Snowdonia, part of the Black Mountains, over large areas stretching from the head of Loch Long to Ben Nevis and from Loch Linnhe as far north as the head of the rivers Farrar and Affric, and also over part of the Isle of Mull.

Among the largest totals reported for the year and set out in the General Table, Part III, the following may be mentioned :—

		Inches.
England ..	Cumberland, Borrowdale (Styehead Tarn)	185·00
	,, ,, (Sprinkling Tarn)	184·45
Wales ..	Carnarvon, Snowdon (Grib Goch)	176·90
	,, ,, (Delta)	176·90
Scotland ..	Argyll, Mull (Benmore)	134·60
	Inverness, Loch Quoich (Loan)	133·31
Ireland ..	Mayo, Aasleagh House	93·52
	,, Delphi Lodge	88·14

The stations with the largest annual totals during 1932 occurred therefore, at the head of Borrowdale, in the English Lake District and on Snowdon.

Some of the smallest totals for the year are set out below :—

		Inches.
England ..	Essex, South Benfleet (Hillside Rd.) ..	16·45
	Essex, Dagenham Sanatorium	16·50
	Essex, Grays (Stanley Rd.)	16·54
Scotland ..	East Lothian, Dirleton	20·97
	Berwick, Dunbar (Public Park)	21·49
Ireland ..	Dublin, Howth Castle	24·01
	Dublin, Lambay Island	24·10

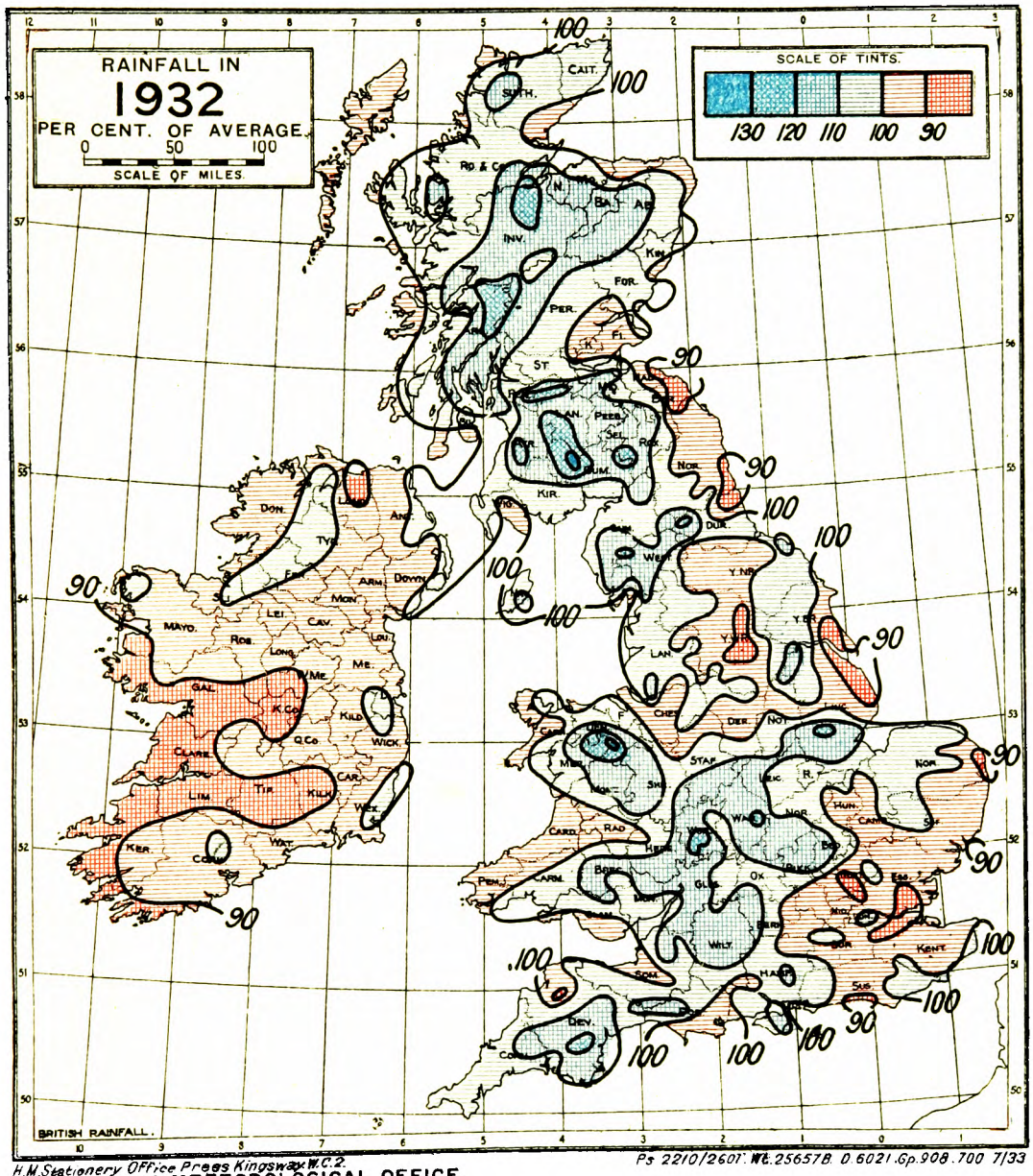
The smallest totals for the year were therefore recorded at stations in Essex, in the neighbouthood of the Thames estuary, to the north of Gravesend.

TABLE.—XXIV.—*Rainfall of* 1932 *as Percentage of Average,* 1881-1915.*

County.	Station.	Per cent. of Aver-age.	County.	Station.	Per cent. of Aver-age.
	ENGLAND.		Yorks W.R.	Goole	111
Surrey	Reigate (Wray Park Rd.)	96	,, ..	Huddersfield (Oakes)	94
Kent	Folkestone (Cherry Gardens)	109	,, ..	Skipton (Chelker Res.)	95
,,	Lympne Aerodrome	96	,, E.R.	Spurn Head	83
,,	Biggin Hill (Aerodrome)	83	,, ..	Patrington	91
Sussex	Patching Farm	97	,, ..	Lowthorpe (The Elms)	93
,,	Horsham (Wimblehurst)	91	,, N.R.	Pickering (Hungate Hall)	106
,,	St. Leonards (Gensing Gardens)	104	,, ..	Guisborough (Lockwood Res.)	118
Hampshire	Totland Bay (Aston House)	102	Durham	Barnard Castle (County Schl.)	97
,, ..	Portsmouth (Victoria Park)	98	,, ...	Ushaw (St Cuthbert's College)	100
,, ..	Grayshott	104	North'ld	Morpeth (Cockle Park)	83
Berkshire	Wellington College	100	,, ..	Howick Hall	100
,, .	Newbury (Greenham Common)	103	Cumberl'd	Penrith (Newton Rigg)	103
Hertford	Harpenden (Rothamsted)	88	,, .	Borrowdale (Seathwaite)	121
Oxford	Middleton Park (*new g.*)	104	,, .	Ravenglass (The Grove)	115
N'hants	Wellingborough (Swanspool)	103	Westmorl'd	Grasmere (The Wray)	117
,, ...	Oundle (Milton Road)	90		**WALES.**	
Bedford	Woburn (Experimental Farm)	111	Monmouth	Tredegar	107
Cambridge	Cambridge (Botanic Gardens)	96	Glamorgan	Gorseinon (Penllergaer)	101
Essex	Elsenham (Gaunts End)	92	Carmarth'n	Llanddeusant (Pontcrynfe)	112
,,	Shoeburyness (New Ranges)	96	Pembroke	Pembroke (Stackpole Court)	101
,,	Bradwell-on-Sea	97	,, .	St. Ann's Head	93
Suffolk	Felixstowe Aerodrome	90	Montgom'y	Welshpool (County School)	114
,,	Campsea Ashe (High House)	96	Denbigh	Wrexham (Pack Saddle Res.)	111
Norfolk	Cromer	102	,, ..	Denbigh (Garn)	105
,,	Swaffham (The Villa)	104	Merioneth	Bala (Eryl Aran)	124
Wiltshire	Landford (Northlands)	96	,, .	Corwen (Rug Gardens)	131
,, ..	Marlborough College	117	Anglesey	Llanerchymedd (Llwydiarth Esgob)	102
Dorset	Bere Regis (Bloxworth House)	94		**SCOTLAND.**	
,, ..	Beaminster (Farrs)	110	Dumfries	Langholm (Ewes)	110
Devon S.	Plymouth (The Hoe)	117	Roxburgh	St. Boswells (The Fens)	114
,, ..	Tavistock	115	Midlothian	Moorfoot Hills (Gladhouse R.)	107
,, ..	Sidmouth (Sidmount)	107	Ayr	Maybole (Culzean Castle Gdns.)	127
,, N.	Torrington (Enfield)	87	Renfrew	Paisley W.W. (Backthornley-muir.)	123
Cornwall	Newquay (Mount Wise)	103	,, ..	Glasgow (Queen's Park)	122
,, ..	Falmouth Observatory	103	Argyll	Corran Lighthouse	120
,, ..	Tresco Abbey	100	,, ...	Glen Etive	122
Somerset	Chew Magna	115	,, ...	Mull of Kintyre	88
,, ..	Batheaston Reservoir	116	,, ...	Loch Eck (Benmore)	111
,, ..	Somerton (Butleigh Court)	100	,, ...	Lismore (Mousedale)	110
,, ..	Milverton (Spring Grove)	107	Perth	Glengyle	112
Gloucester	Cheltenham (Montpellier Gns.)	107	,, ...	Perth (Wellshill Cemetery)	94
Hereford	Hereford (Belmont Abbey)	118	Angus	Kirriemuir (Lintrathen)	103
,, ..	Leominster (Fairholme)	109	Aberdeen	Ellon (Esslemont House)	100
Shropshire	Shifnal (Hatton Grange)	111	Banff	Keith Station	111
Stafford	Leek (Wall Grange)	96	Ross	Strathpeffer	120
Worcester	Bromsgrove (Tardebigge Res.)	104	Sutherland	Melvich	102
,, .	Stourport (Lincombe Lock)	112		**IRELAND.**	
Warwick	Ryton-on-Dunsmore (Ryton Ho.)	123	Kerry	Killarney (Mental Hospital)	90
Leicester	Kibworth Beauchamp	100	,, ...	Darrynane Abbey	83
,, ..	Thornton Reservoir	109	Tipperary	Cahir (Abbey)	88
Lincoln	Spalding (Pode Hole)	108	Wexford	Foulkesmill (Longraigue)	99
,, ...	Lincoln (Skellingthorpe Hall)	99	Carlow	Bagnalstown (Fenagh House)	98
,, ...	Skegness	92	Dublin	Dublin (Phœnix Park)	107
Nottingh'm	Nottingham (Strelley)	104	W'meath	Athlone (Twyford House)	86
,, ..	Retford (Babworth Hall)	100	Galway ..	Galway (Grammar School)	88
Derby	Buxton (Terrace Slopes)	92	Roscomm'n	Strokestown (Castlenode)	99
Cheshire	Runcorn (Weston Point)	99	Mayo	Aasleagh House	98
,, ...	Woodhead Reservoir	98	Armagh	Lurgan (Belle Vue)	90
Lancs. C.	Burnley (Swinden) *Lower g.*	99	Down	Banbridge (Milltown)	90
,, ..	Wigan W.W. (Worthington)	109	Antrim ..	Aldergrove Aerodrome	101
,, ..	Blackpool (Met. Observatory)	105			
,, N.	Garstang (Grizedale Res.)	106			
Yorks W.R.	Slaidburn (Dunsop Houses)	108			

*See also Table XXI, pp. 123-127.

RELATION OF RAINFALL IN 1932 TO THE AVERAGE OF 1881-1915.



The area coloured Red had rainfall below the average, that coloured Blue had rainfall above the average.

[Face page 140]

II.—EVAPORATION AND PERCOLATION IN 1932.

The *evaporation gauges* in use are square tanks sunk in the ground, and the evaporation which is measured is that from a free water surface. The standard gauge at Camden Square is 6 ft. square and 2 ft. deep, and is sunk so that the lip projects about 3 inches. The routine consists of the daily measurement of the level of the water below a mark fixed in the tank. From the difference between consecutive daily measurements, is deducted the rainfall for the same period, as measured in an adjacent rain-gauge. The net depression of the water-level in the tank during the interval of 24 hours is taken to be a measure of the evaporation. Sometimes in winter the "evaporation" comes out as a small negative quantity; this is regarded as due to the condensation of water from the superincumbent air, and the corresponding measurements are marked "c" in the tables. So far as is practicable, the level of the water is kept about 2 to 3 inches below the top of the lip. This necessitates water being added in summer and syphoned off in winter. During the winter months there is some difficulty in getting a reading when the water freezes. In such cases the ice is broken away from the side of the tank and the measurement of the water-level is made while the ice is floating. If this cannot be done any morning, owing to the thickness of the ice, a measurement is made as soon as possible (on a subsequent morning), and the amount of evaporation calculated over the whole period. The evaporation is small in winter, so that little information is lost by adopting this procedure.

The accuracy of the measurements of evaporation depends on the depth of water caught as rain in the evaporation tank being identical with that measured directly in the rain-gauge alongside. Some of the factors which are likely to vitiate the measurements of evaporation were discussed in *British Rainfall*, 1925, pp. 127–128.

The list of stations given in Table XXV, for which details of the evaporation are available for 1932, is the same as last year, apart from the inclusion of a record from Bartley Reservoir, to the south-west of Birmingham, maintained by the City of Birmingham Water Department. The tank installed is similar to that in use at Camden Square.

Three evaporation tanks were maintained during the year by the Engineer, Cardiff Water Works in the Upper Taff Valley, some 25 to 30 miles to the north-west. These are at Llwynon, Cantref Reservoir and Beacons Reservoir. The tanks are near the main river at altitudes of 860, 1,080 and 1,340 feet respectively, and the two extreme stations are only five miles apart. The annual totals were 12·79, 9·48 and 12·24 inches respectively. The evaporation record

at Llanishen Reservoir, Cardiff, has terminated; the records of evaporation obtained there being regarded as too large, owing to differences in the exposure of the rain-gauge and tank. The tank has now been set up in a field between Filter House and Nantddu Lodge at Cantref Reservoir, and the records should form a useful check on the readings obtained from the tank already in operation there. The new site (978 feet) is about $\frac{1}{4}$ mile to the south-east of the existing site (1,080 feet). The old site is to the west of and above the embankment, while the new site is further down and in the bottom of the valley. The new site is more open, being less sheltered by the hills to the west, and receives sunshine for a greater part of the day than the old site. The records are not included in Table XXV, pending further investigation.

The evaporation from a free water surface at each station shows a well-marked seasonal variation. The amount is large in the six summer months, April to September, and much smaller in the remaining months of the year. During 1932, most stations recorded less evaporation than usual, this being associated with the deficiency of sunshine, which was experienced in most parts of the country. May and July were duller than usual but more than the average sunshine was experienced during June.

The monthly and annual means for the thirteen stations are set out in the last column of the table. For the year the mean evaporation is 15·1 inches. This is 0·5 inch more than in 1931, when the smallest value was obtained for any year since before 1919. The largest value was 20·6 inches in 1921. As much as 12·6 inches or 83 per cent. of the total was evaporated in the six summer months. There is a fairly uniform change from a maximum in June to a minimum in December and January, but the figures emphasize the dull May, the dullest May on record in many parts of England, and a June with more than the usual amount of sunshine.

The monthly evaporation values for the 48 years, 1885 to 1932, at Camden Square (London) are set out in Table XXVII. The record is the longest available in this country. For 1932 the evaporation of 13·56 inches was 1·94 inches less than the average for the 35 years (1885–1919). The total evaporation was ·43 inch more than that recorded in 1931, and there were only seven years in the series with less evaporation. The evaporation was as much as ·78, ·64, ·43 and ·33 inch less than the respective monthly averages in May, July, April and September. The evaporation was slightly in excess of the average in June, February, January and October.

In Table XXVI the amount of water which percolates through a definite depth of soil is given. In addition to the stations in operation during 1931 records are given from three percolation gauges set up at Farlington Works by the Engineer to the Portsmouth Water Works. The gauges were installed in March, 1932, and consist of

lengths of cast iron pipes, 36 inches in diameter, sunk vertically into the ground and set into a concrete foundation. Each is filled with the local chalky marl to depths of 12, 24 and 36 inches, respectively, and covered with turf at ground level. Below the soil is a graded layer of flints from which the percolated water is withdrawn for measurement by means of a drain-pipe. The rainfall is measured by a 5 inch Snowdon gauge installed nearby. Details of the other percolation gauges and the type of soil are set out in the footnotes and in *British Rainfall*, 1924, p. 128. The difference between percolation and rainfall is largely to be accounted for by evaporation, but evaporation as determined in this way (known as " calculated evaporation ") is not strictly comparable with that given in the earlier table. There is no free water surface present in the percolation gauge, but during dry periods the surface soil is nearly dry, so that practically no evaporation can take place. The calculated evaporation, as obtained from the percolation gauges, was similar to that of 1931, although less than that of other recent years. The mean value in 1932 was 13·05 inches compared with 13·21 inches in 1931.

At Compton, no rain percolated through the gauge (which consists of 10 inches of soil, on which grass is grown, over 2 feet of well-rammed chalk) from the 10th June to the 24th July and again from the 8th August to the 22nd September (inclusive). AtFarlington the total percolation for the four months June to September was ·1 inch, at Rothamsted about 1·5 inches, at Harrogate 1·3 inches and at Craibstone about 1·9 inches. There was little percolation during June and July at Craibstone.

At Rothamsted rather more rain passed through the 40-inch and 60-inch gauges than through the 20-inch gauge. The larger drainage through the 40-inch gauge has been a feature of the records since they were first started. In the discussion of a paper on the " Subterranean Water in the chalk formation of the Upper Thames and its relation to the supply of London," read before the Institution of Civil Engineers in 1891, Dr. J. H. Gilbert explained this as due to the different composition of the soil, the sub-soil at Rothamsted being extremely variable. As the values for the percolation through the gauges 20 inch and 60 inch deep show no marked difference it seems reasonable to conclude that the 20-inch gauge at Rothamsted is of sufficient depth to give a good indication of the water likely to go into " permanent storage." At Farlington, however, the records show appreciably less percolation through the deepest gauge.

All percolation gauges gave large amounts of percolation during January and October. At all stations except Craibstone there was also much percolation in May. At Craibstone March and April were much wetter than May and the percolation was correspondingly greater there in the earlier months. The amount of percolation during January slightly exceeded the rainfall of that month at all stations.

Table XXV.—*Evaporation in* 1932.

List of Stations.	County.	Observer.	Particulars of Tank. Height above Ground.	Height above Sea Level.	Side.	Capacity.
			ft. in.	ft.	ft. in.	Gals.
Camden Square.	London 2	Royal Meteor. Soc. ..	0 3	111	6 0	450
Otterbourne ..	Hampshire 5	E. C. Rodda, Esq. ..	0 3	112	6 0	450
Petersfield	,, ...6	C. J. P. Cave, Esq.*	0 3	747	4 0	250
Ormesby St. M..	Norfolk 2	Gt. Yarmouth W.W.	0 3	21	6 0	450
Kennick	South Devon 5	S. C. Chapman, Esq.	0 3	835	6 0	450
Bartley	Warwickshire....4	J. W. Wilkinson, Esq.	0 3	611	6 0	450
Southport	Cen. Lancashire...3	J. Baxendell, Esq. ..	0 3	37	3 0	112
Ardsley, No. 1	Yorkshire, W.R. 8	C. C. Smith, Esq. ..	0 3	395	6 0	450
,, No. 2	,, ,, 8	,, ..	0 3	326	6 0	450
Lower Laithe ..	,, ,, 9	M. R. Barnett, Esq...	0 6	772	6 0	450
Harrogate	,, ,, 11	A. S. West, Esq.	0 3	589	6 0	450
Talla Water ..	Peebles 1	Messrs. Leslie & Reid	0 3	904	6 0	450
Glencorse Filters	Midlothian 4	,, ,,	0 3	639	6 0	450

1932.	Camden Square.	Otterbourne.	Petersfield.	Ormesby St. Michael.	Kennick.	Bartley.	Southport.
	in.	in.	in.	in.	in.	in.	in.
January	·14	·19	·03	·20	·13	·02	·14
February	·33	·29	·26	·38	·64	·09	·22
March	·64	1·18	·82	1·15	·99	·70	·74
April	1·08	1·44	1·16	1·60	1·53	1·20	1·79
May.....	1·65	1·76	1·42	1·73	1·87	1·87	1·82
June	3·05	3·60	3·23	2·60	1·95	3·21	3·22
July	2·33	2·83	3·32	2·82	2·50	2·82	2·74
August	2·33	2·66	2·59	2·30	2·84	3·03	2·11
September	1·05	1·26	1·35	1·50	1·50	1·58	1·44
October	·63	1·02	1·17	·69	1·14	·99	·87
November	·23	·56	·26	·47	·47	·31	·20
December	·10	·14	·00	·20	·13	·15	·05
Year	13·56	16·93	15·61	15·64	15·69	15·97	15·34
Average, 1908–1932 ..	15·04	19·32	..	..	18·63	..	..
Difference	—1·48	—2·39	..	..	—2·94	..	..

1932.	Ardsley No. 1.	Ardsley No. 2.	Lower Laithe.	Harrogate.	Talla Water.	Glencorse.	Mean of 13 Records.
	in.	in.	in.	in.	in.	in.	in.
January	·19	·01	·12	·35	·11	·15	·14
February	·44	·37	·35	·49	·07	·16	·31
March	·86	·70	·65	·93	·33	·58	·79
April	1·60	1·27	1·38	1·91	1·11	1·10	1·40
May.....	1·48	1·27	1·47	2·11	1·71	1·22	1·64
June	3·29	3·01	2·94	3·06	3·45	2·87	3·04
July	2·95	2·56	2·53	2·98	1·95	2·38	2·67
August	2·56	2·38	2·11	2·62	1·85	2·05	2·42
September	1·74	1·44	1·28	1·93	·97	1·36	1·41
October	·94	·76	·76	1·42	·43	·48	·87
November	·26	·21	·28	·61	·06	·06	·31
December	·11	·07	·09	·43	·11	·00	·12
Year	16·42	14·05	13·96	18·84	12·15	12·41	15·12
Average, 1908–1932 ..	17·26	..	..	19·10	15·48	..	..
Difference	— ·84	..	..	— ·26	—3·33	..	..

NOTE.—In the Table, " c " indicates an excess of condensation over evaporation.
* Per Royal Meteorological Society.

Table XXVI.—*Rainfall, Percolation and Calculated Evaporation in* 1932.

(Unless otherwise stated the size of the percolation gauges is 3 ft. × 3 ft. × 3 ft.)

1932.	Farlington, Hants.				¶Rothamsted, Herts.			
	Rainfall.	Percolation 12 in. Soil.	Percolation 24 in. Soil.	Percolation 36 in. Soil.	Rainfall.††	Percolation** 20 in. Soil.	Percolation** 40 in. Soil.	Percolation** 60 in. Soil.
	in.	in.	in.	in.	in.	in.	in.	in.
January	..	..	..	..	1·89	2·04	2·25	2·18
February	..	..	..	..	·17	·00	·02	·02
March	..	..	..	..	1·86	·85	·81	·84
April	2·58	·09	·00	·00	2·11	·70	·76	·75
May	4·67	2·65	2·16	1·40	4·06	2·43	2·49	2·46
June	1·55	·04	·05	·09	·79	·01	·05	·03
July	3·03	·00	·01	·01	2·50	·64	·57	·57
August	1·32	·05	·00	·00	1·99	·62	·66	·64
September	2·88	·00	·00	·00	1·66	·27	·21	·17
October	6·24	4·18	3·40	2·61	4·36	2·84	3·42	3·29
November.....	1·31	·53	·33	·35	1·55	1·07	1·15	1·11
December	·91	1·01	·85	·78	·60	·45	·56	·56
Year	..	..	..	..	23·54	11·92	12·95	12·62
Calculated Evaporation	..	..	..	..	..	11·62	10·59	10·92

1932.	Compton, Sussex.		Harrogate, Yorks.		Craibstone, Aberdeen.			
	Rainfall.	Percolation.	Rainfall.	Percolation.	Rainfall.	Percolation.§ 1* 40 in. Soil.	Percolation.§ 2† 40 in. Soil.	Percolation.§ 3‡ 40 in. Soil.
	in.	in.	in.	in.	in.	in.	in.	in.
January	4·28	4·50	2·26	2·48	1·95	2·44	2·43	2·42
February	·37	·31	·21	·19	·42	·15	·14	·10
March	1·71	·36	1·97	·69	3·93	2·76	2·88	2·82
April	3·48	2·09	2·63	1·12	4·19	3·31	3·25	3·26
May	4·76	3·61	4·93	3·35	2·70	·89	·78	·75
June	1·99	·14	·63	·20	1·20	·08	·08	·04
July	5·35	1·93	4·20	·22	3·03	·00	·00	·00
August	1·37	·22	1·43	·10	3·57	·95	1·03	·92
September	3·63	·14	2·81	·83	3·20	·81	·93	·99
October	7·98	7·73	3·88	2·02	7·51	6·53	6·82	6·40
November.....	2·10	1·29	2·32	2·07	1·55	1·12	1·08	1·21
December	1·27	1·55	1·19	1·10	1·51	1·37	1·28	1·28
Year	38·29	23·87	28·46	14·37	34·76	20·61	20·70	20·19
Evaporation	..	14·42	..	14·09	..	14·15	14·06	14·57

¶ Area of gauges one thousandth of an acre.
§ The gauges were under pasture.
† Manured.
** Through bare unworked soil.
* Unmanured.
‡ Manured and limed.
†† Values obtained from the 8 inch gauge.

Table XXVII.—*Evaporation at Camden Square, London*, 1885–1932.

	Jan. in.	Feb. in.	Mar. in.	April in.	May. in.	June. in.	July. in.	Aug. in.	Sept. in.	Oct. in.	Nov. in.	Dec. in.	Total. in.
1885.....	·20	·38	·86	1·71	1·98	2·77	3·29	2·25	1·13	·77	·17	·11	15·62
1886.....	·23	·13	·53	1·59	1·78	2·93	3·12	1·86	1·46	·63	·27	·12	14·65
1887.....	c·07	·29	·76	1·72	1·79	3·68	3·76	2·54	1·25	·78	·21	·07	16·78
1888.....	·07	·37	·48	1·16	2·71	2·24	1·44	1·90	1·17	·60	·43	·03	12·60
1889.....	·03	·18	·62	1·07	1·76	2·97	2·34	1·96	1·52	·42	·29	c·13	13·03
1890.....	·08	·19	·50	1·44	2·63	2·14	2·33	2·02	1·27	·79	·31	·04	13·74
1891.....	·03	·16	·73	1·35	1·66	2·83	2·34	1·67	1·00	·62	·20	·22	12·81
1892.....	·05	·09	·60	1·88	2·65	3·05	2·84	2·20	1·01	·36	·02	·20	14·95
1893.....	c·03	·01	·92	2·33	3·06	3·62	3·12	2·85	1·48	·70	·11	·01	18·18
1894.....	c·04	·28	·83	1·17	2·10	2·48	2·49	1·91	·97	·37	·20	·11	12·87
1895.....	·14	·64	·36	1·26	3·06	3·31	3·07	2·12	1·27	·54	·19	·07	16·03
1896.....	·16	·24	·64	1·57	3·06	3·21	3·63	1·96	·68	·47	·18	·00	15·80
1897.....	·23	·21	·76	1·23	2·99	2·48	3·60	2·49	·99	·63	·26	c·14	15·73
1898.....	·19	·37	·51	1·28	1·56	2·10	2·96	2·53	1·73	·45	·11	·16	13·95
1899.....	·04	·28	·52	1·24	2·34	3·67	4·03	3·78	2·01	·45	·41	·11	18·88
1900.....	·03	·16	·80	1·46	2·35	2·85	4·25	2·61	1·61	·89	·24	·15	17·40
1901.....	·13	·24	·60	1·98	3·25	3·85	3·37	3·19	1·42	·64	·31	c·05	18·93
1902.....	·16	·15	·71	1·75	1·78	2·33	3·30	1·71	1·47	·69	·28	·27	14·60
1903.....	·26	·39	·97	1·57	2·24	2·79	3·35	2·53	1·51	·86	·29	·12	16·88
1904.....	c·09	·26	·54	1·68	1·81	3·32	4·06	2·86	1·20	·50	·26	·02	16·42
1905.....	·17	·35	·65	1·14	3·19	2·49	3·65	2·23	1·24	·78	·09	·16	16·14
1906.....	·06	·21	·73	1·90	1·90	3·53	3·65	3·46	2·38	·78	·27	·16	19·08
1907.....	·21	·38	1·02	1·27	1·93	2·47	2·65	2·24	1·72	·49	·27	·19	14·84
1908.....	·05	·27	·56	1·32	2·23	3·77	2·75	2·47	1·25	·48	·29	·14	15·58
1909.....	·14	·30	·30	1·85	2·93	1·70	2·60	2·23	·84	·76	·17	·16	13·98
1910.....	·22	·17	·80	1·43	2·52	2·57	2·00	2·12	1·42	·76	·19	·10	14·30
1911.....	·15	·32	·59	1·77	2·58	3·34	4·60	3·19	1·96	·64	·37	·02	19·53
1912.....	·24	·16	·79	2·34	2·44	2·49	2·55	1·69	1·41	·39	·33	·12	14·95
1913.....	·10	·32	·77	1·25	2·49	3·13	2·15	2·09	1·07	·61	·36	·32	14·66
1914.....	·09	·24	·52	1·84	2·56	2·93	2·72	1·99	1·68	·70	·28	·05	15·60
1915.....	·11	·13	·66	1·65	2·90	3·15	2·50	1·76	1·61	·56	·25	c·03	15·25
1916.....	·19	·34	·30	1·61	2·32	2·20	2·23	2·34	1·20	·76	·34	c·04	13·79
1917.....	·11	·17	·53	1·18	3·06	3·01	2·81	1·95	1·16	·75	·34	·12	15·19
1918.....	·14	·27	·85	·89	2·38	3·01	2·59	2·04	1·69	·40	·24	·16	14·66
1919.....	c·12	·13	·66	1·06	2·94	3·39	1·90	2·78	1·53	·61	·08	·06	15·02
1920.....	·20	·24	·78	·85	2·71	2·85	2·09	2·00	1·04	·66	·04	·00	13·46
1921.....	·20	·28	·96	1·91	3·04	3·66	4·17	2·56	1·72	·72	·19	·28	19·69
1922.....	·16	·31	·96	1·20	2·93	3·36	2·09	1·74	1·11	·66	·27	·14	14·93
1923.....	c·01	·16	·65	1·26	2·16	2·16	3·59	2·79	1·24	·73	·24	·02	14·99
1924.....	c·17	·28	·73	1·28	2·27	2·91	3·21	1·82	1·11	·59	·33	·11	14·47
1925.....	·12	·30	·83	1·30	2·34	3·48	2·61	1·58	1·01	·56	·37	·00	14·50
1926.....	c·03	·12	1·03	1·06	2·07	2·50	2·51	2·12	1·34	·74	·20	·05	13·71
1927.....	·05	·19	·65	1·45	2·91	2·64	2·01	1·75	1·08	·37	·29	·13	13·52
1928.....	c·04	·23	·70	1·33	2·15	3·04	4·08	2·17	1·67	·57	·36	·03	16·29
1929.....	·20	·29	·64	1·53	2·66	2·93	3·42	2·22	1·81	·80	·27	·14	16·91
1930.....	·13	·26	·90	1·07	1·82	3·07	2·85	1·98	1·16	·71	·28	·08	14·31
1931.....	·03	·22	·88	1·03	1·92	2·69	2·60	1·75	·97	·68	·12	·24	13·13
1932.....	·14	·33	·64	1·08	1·65	3·05	2·33	2·33	1·05	·63	·23	·10	13·56
Average 1885–1919...	·10	·25	·66	1·51	2·43	2·91	2·97	2·33	1·38	·62	·25	·09	15·50
Difference 1932	+·04	+·08	−·02	−·43	−·78	+·14	−·64	·00	−·33	+·01	−·02	+·01	−1·94

NOTE.—c indicates condensation.

FOR OFFICIAL USE

METEOROLOGICAL OFFICE, AIR MINISTRY

BRITISH RAINFALL ORGANIZATION

BRITISH RAINFALL, 1932

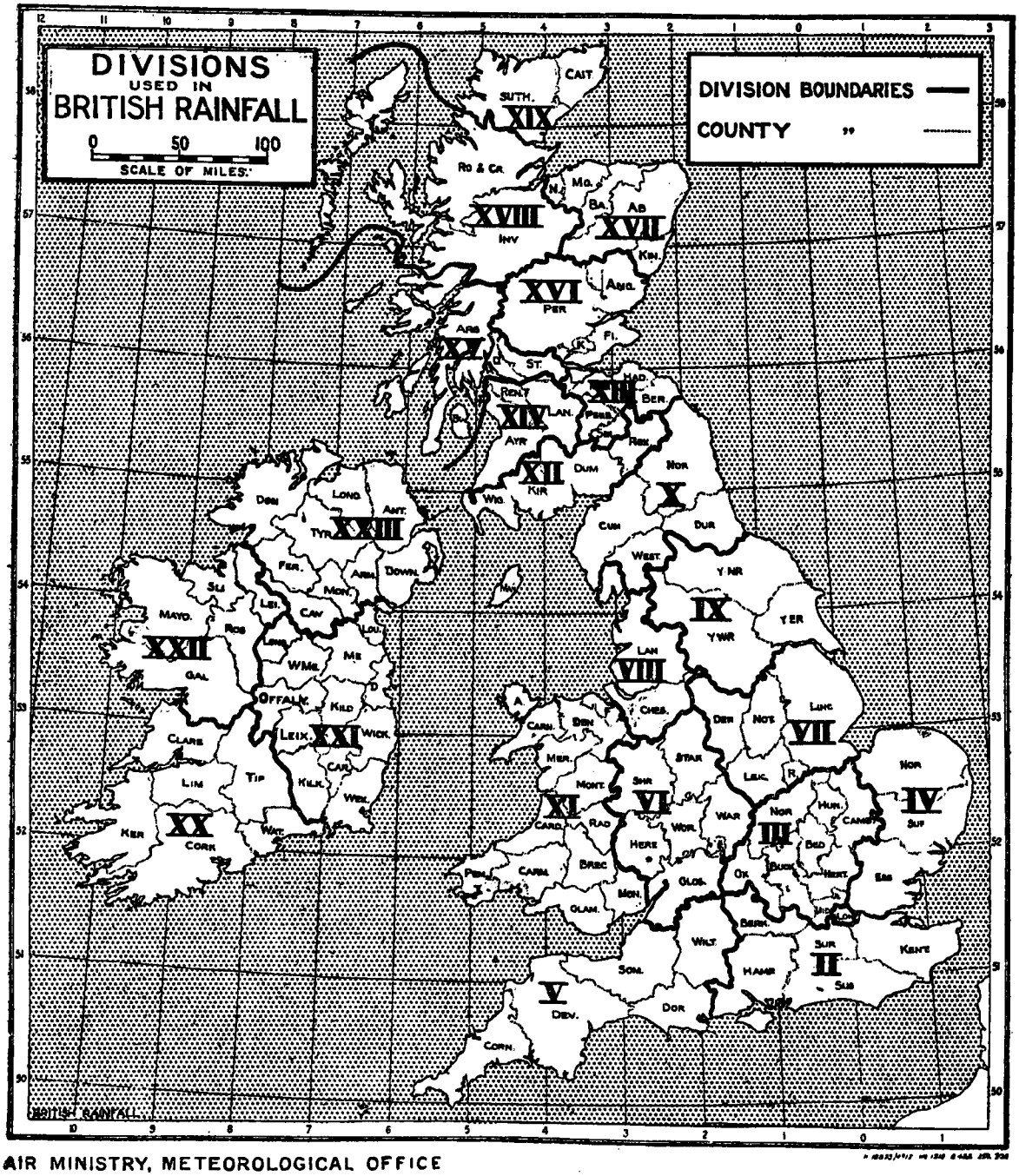
PART III

General Table of

TOTAL RAINFALL IN 1932

AT STATIONS IN GREAT BRITAIN
AND IRELAND WITH THE NAMES OF
THE OBSERVERS OR OTHER AUTHORITIES
FOR THE OBSERVATIONS

Issued by the Authority of
the Meteorological
Committee



AIR MINISTRY, METEOROLOGICAL OFFICE

GENERAL TABLE OF TOTAL RAINFALL IN 1932.

EXPLANATORY NOTE

The Divisions of Great Britain in the General Table are the same as those adopted by the Registrars-General of England and Scotland. They are shown on the map facing this page.

The counties are divided up into numbered areas, corresponding to the river-basins. An account of these river-divisions for England and Wales was given in a special article in Part I of *British Rainfall,* 1910 (pp. 37-66), and a similar article on the river-divisions of Scotland and Ireland appeared in Part I of *British Rainfall,* 1911 (pp. 40-72), with detailed maps showing all the river-divisions in each Division. Reprints of these articles are available. The areas of the river basins of the Great Ouse and tributaries in Norfolk and Cambridge were redetermined in 1928; the values printed in this volume and in the volume for 1927 differ slightly from those published in *British Rainfall* from 1910 to 1926. The sequence of river divisions in Great Britain proceeds anti-clockwise from the Solway Firth. For example, in the West Riding of Yorkshire we have four divisions for rivers flowing to the Irish Sea, followed by eight divisions for rivers tributary to the Humber.

The stations in each river-division are arranged nearly in the order of their latitude from South to North. For convenience, the first name defining a station is that of a place which can be found on any large scale map; occasionally it is an adjoining county. The second name is added to fix the site of observation more closely, *e.g.*, "Haslemere (Clammer Hill)" means Clammer Hill, near Haslemere.

In some cases the records have been received from a local rainfall organization. This has been indicated by a footnote.

In the column headed "Diameter," figures in old style type indicate the length of the sides of rectangular gauges.

The letter D signifies that daily observations have been received and are complete for the year; d, that less complete daily records have been received; W indicates that weekly readings have been received, and M that the gauge is read only once a month, usually on the 1st.

(R) denotes that the gauge is a mechanical one the correct reading of which depends on the mechanism being in working order.

(A) denotes that the amount of rainfall is taken from the chart of an autographic instrument.

(+A) denotes that the amount of rainfall is taken from an ordinary gauge and that an autographic instrument is also in use.

Where two or more gauges are maintained at the same station the comparison of the records is seldom of general interest. The rule has now been adopted that in such cases only one record will normally be published in *British Rainfall*. The use of mechanical gauges for measuring the total rainfall is not recommended by the Meteorological Office and the number of records marked (R) or (A) is therefore small.

Gauges which have been inspected and found to be over-exposed on moorland have been so marked. It is likely that there are other gauges (notably some of those at lighthouses) which are also over-exposed.

The column for the total rainfall in millimetres, which was a feature of the corresponding table in the volumes for the years 1914 to 1925, has been omitted since 1926, and the space thus set free is devoted to a column for average annual totals, expressed in inches, to the nearest tenth of an inch. The averages are printed in ordinary type if they are either the mean of the annual values for the standard period 1881 to 1915, or, in the case of shorter records, if they have been reduced by the accepted method to the standard period. If the computation has been made outside the office the average is printed in italics, since it may subsequently be revised slightly. The average is also given in italics if it is the mean for twenty or more years other than the standard period or if the mean has been weighted to some other period. Averages for the standard period of 35 years 1881 to 1915, are always preferred for entry in the table. Many of the averages printed in italics have been kindly computed by Mr. H. P. Cornish of Keswick and these are weighted to the standard period 1881 to 1915.

A few entries of total rain will be found in brackets—indicating that the values have been corrected, *e.g.*, when snow has been lost, when the amount for a short period has been computed from other records, or when the gauge has been moved a short distance during the year. A record is not as a rule printed if the gauge has been moved more than a mile, or if there is a greater difference than 50 ft. of altitude between the two positions.

A note of interrogation (?) implies doubt, not necessarily error. The absence of information is indicated by ..

COUNTY INDEX TO GENERAL TABLE.

ENGLAND.

Bedford	174	Hereford	194	Oxford	171
Berkshire	166	Hertford	169	Rutland	200
Buckingham	170	Huntingdon	173	Shropshire	195
Cambridge	174	Kent	157	Somerset	189
Cheshire	204	Lancashire	205	Stafford	196
Cornwall and Scilly	188	Leicester	199	Suffolk	177
Cumberland	220	Lincoln	200	Surrey	153
Derby	202	London	152	Sussex	160
Devon	183	Middlesex	168	Warwick	198
Dorset	182	Monmouth	222	Westmorland	221
Durham	218	Norfolk	179	Wiltshire	180
Essex	175	Northampton	172	Worcester	197
Gloucester	192	Northumberland	219	Yorkshire	210
Hampshire	163	Nottingham	201		

WALES.

Anglesey	232	Carnarvon	231	Merioneth	230
Brecon	226	Denbigh	229	Montgomery	228
Cardigan	225	Flint	229	Pembroke	225
Carmarthen	225	Glamorgan	223	Radnor	228

ISLANDS.

Isle of Man	232	Channel Islands	232

SCOTLAND.

Aberdeen	250	E. Lothian (Haddington)	237	Peebles	236
Angus	249	Fife	245	Perth	246
Argyll	243	Inverness	252	Renfrew	241
Ayr	239	Kincardine	249	Ross and Cromarty	253
Banff	251	Kinross	245	Roxburgh	235
Berwick	236	Kirkcudbright	234	Selkirk	235
Bute	243	Lanark	238	Shetland	255
Caithness	255	Midlothian	237	Stirling	242
Clackmannan	245	Moray	251	Sutherland	254
Dumbarton	242	Nairn	251	W. Lothian (Linlithgow)	238
Dumfries	234	Orkney	255	Wigtown	234

IRELAND.

Antrim	265	Kerry	256	Monaghan	264
Armagh	264	Kildare	260	Offaly	260
Carlow	259	Kilkenny	258	Roscommon	262
Cavan	263	Leitrim	263	Sligo	263
Clare	258	Leix	259	Tipperary	257
Cork	256	Limerick	257	Tyrone	266
Donegal	266	Londonderry	265	Waterford	257
Down	264	Longford	262	Westmeath	261
Dublin	260	Louth	261	Wexford	258
Fermanagh	264	Mayo	262	Wicklow	259
Galway	262	Meath	261		

ENGLAND AND WALES.

DIVISION I—LONDON. (Area, 117 sq. mi.)

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Height of Ground above Sea Level.	Average Rainfall.	1932. Rainfall.	Days with ·01 in. or more.	Days with ·04 in. or more.
1.—THAMES.—Right Bank Tributaries. 67 sq. mi.		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
BERMONDSEY.								
D Southwark Park	London County Council...	5	1 0	9	..	24·54	144	119
LAMBETH.								
D Brockwell Park	London County Council....	5	1 0	144	..	22·08	143	105
d Brixton Hill Reservoir	Met. Water Board.....	5	1 1	121	..	23·16	..	..
BATTERSEA.								
D Battersea Park	London County Council...	5	1 0	13	..	23·53	159	114
WANDSWORTH.								
d Streatham (Arragon Gardens)	L. C. Johnson, Esq., ...	5	1 0	200	..	23·88	(167)	(109)
D Streatham (Conyers Road)	Met. Water Board.....	5	1 0	119	*23·6*	22·21	155	111
D Streatham Hill Reservoir	Met. Water Board.....	5	1 0	205	..	21·97	140	102
D Putney Heath Reservoir	Met. Water Board.....	5	1 6	179	*24·9*	22·94	157	113
D Balham High Road.....(+A)	E. J. Elford, Esq., C.E.....	5	1 6	89	..	23·92	163	108
D Southfields (Coronation Gds)(+A)	E. J. Elford, Esq., C.E.	5	1 6	37	..	22·69	150	111
CAMBERWELL.								
D Nunhead (Nunhead Reservoir)	Met. Water Board.....	5	1 0	175	*23·1*	22·67	157	107
DEPTFORD.								
D Telegraph Hill	London County Council...	5	1 0	135	..	21·22	155	105
D Waterworks	Met. Water Board.....	5	1 0	20	*23·0*	23·38	150	108
GREENWICH.								
D Deptford Pumping Station (+A)	London County Council....	8	1 0	18	*24·9*	23·21	139	108
D Royal Observatory	Sir F. W. Dyson, F.R.S.....	8	0 5	149	23·5	24·70	171	113
D Westcombe Park Road	Rev. T. R. Price.....	8	1 3	154	..	25·45	189	109
LEWISHAM.								
D Forest Hill Reservoir	Met. Water Board.....	5	1 0	337	*25·9*	28·65	195	128
D Clarendon Road	G. E. Dacey, Esq.....	5	1 0	98	..	26·00	179	118
WOOLWICH.								
D Eltham (High Street)	Met. Water Board.....	5	1 0	245	*24·3*	21·46	148	112
2.—THAMES.—Left Bank Tributaries. 50 sq. mi.								
KENSINGTON.								
D Harley Gardens	Mrs. Hamlyn Price.....	5	1 5	29	..	23·75	175	123
D Holland House	Mr. P. B. Rintoul.....	5	1 0	69	*24·9*	23·05	147	112
D Campden Hill Reservoir	Met. Water Board.....	5	1 0	142	*27·5*	22·27	150	113
D Kensington Palace.....(+A)	The Meteorological Office...	8	1 0	80	..	23·95	172	113
HAMMERSMITH.								
D The Creek	London County Council...	5	3 0	19	..	21·88	159	116
FULHAM.								
D Hammersmith Cemetery	R. J. Brown, Esq.....	5	1 0	17	..	21·47	148	107
D Bishops Park .....(+A)	A. F. Holden, Esq., C.E....	5	0 11	15	..	23·04	139	111
CHELSEA.								
D Physic Garden	W. Hales, Esq.....	5	1 0	20	*23·8*	24·57	156	110
D Oakley Street	A. Hampton Brown, Esq...	5	1 0	25	..	22·96	169	110
D St. Luke's Gardens	W. R. Manning, Esq., C.E..	5	1 0	25	*24·9*	23·31	168	109

DIVISION I—LONDON—(*con.*).

	STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1932. Rainfall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
	2.—THAMES.—Left Bank Tributaries—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
	WESTMINSTER.								
D	Western Pumping Station	London County Council	8	1 0	19	*23·5*	21·83	141	105
D	King's Scholar's Pond P.S.	London County Council	8	11 6	31	..	23·06	161	102
D	Buckingham Palace	Mr. A. J. Cole	5	8 0	35	*24·9*	22·95	149	106
D	Kensington Gardens	Prof. S. M. Dixon	5	1 0	78	..	23·30	154	111
D	St. James's Park (+A)	The Meteorological Office	8	1 0	27	*22·4*	22·94	169	104
D	Spring Gardens	London County Council	8	6 0	35	*24·0*	22·28	148	103
	ST. MARYLEBONE.								
d	Regents Park†	The Superintendent	5	1 0	126	..	(22·70)	(144)	(118)
	HAMPSTEAD.								
D	Barrow Hill Reservoir	Met. Water Board	5	1 0	175	*25·2*	22·03	128	110
D	Kidderpore Reservoir	Met. Water Board	5	1 0	328	*24·8*	22·36	138	113
D	Observatory	E. L. Hawke, Esq.	8	1 0	450	..	24·71	199	121
D	Golders Hill Park	London County Council	5	1 0	350	..	24·14	171	130
	ST. PANCRAS.								
D	Camden Square (+A)	Royal Meteorological Soc.	8	1 0	110	24·5	23·30	167	118
D	Camden Square *Snowdon*	Royal Meteorological Soc.	5	1 0	110	24·5	23·29	167	118
M	Camden Square	Royal Meteorological Soc.	5	1 0	110	..	23·32	..	..
	Kentish Town (C.E. School)	The Headmaster	5	1 3	124	..	22·77	..	..
	STOKE NEWINGTON.								
D	New River Filter Beds	Met. Water Board	5	1 3	101	*24·6*	22·42	149	108
D	New River Reservoirs	Met. Water Board	5	1 0	105	*25·4*	21·91	154	112
	HACKNEY.								
D	Clapton Pond (+A)	P. Holt, Esq., C.E.	5	1 0	69	*24·2*	22·20	144	106
	FINSBURY.								
D	New River Head	Met. Water Board	8	1 0	95	*23·5*	21·76	140	.107
	BETHNAL GREEN.								
d	Victoria Park	London County Council	5	1 0	43	..	23·63	..	115
	POPLAR.								
D	Isle of Dogs (Island Gardens)	London County Council.	5	1 0	18	..	22·77	149	110
D	Old Ford Pumping Station	Met. Water Board	8	0 9	19	*23·7*	24·63	161	114
D	Old Ford (Penstock House) (+A)	London County Council	8	1 0	43	*23·6*	23·75	153	115
	WOOLWICH.								
D	N. Woolwich Pumping Stn. (+A)	London County Council	8	0 9	12	*22·9*	22·06	145	109
D	Barking Outfall	London County Council	8	0 9	9	*21·8*	21·48	149	106

DIVISION II—SOUTH-EASTERN COUNTIES

SURREY. (Area, 725 sq. mi.)

1.—ARUN. 45 sq. mi.

D	Haslemere (Clammer Hill)	Mrs. Glennie	5	1 6	400	*35·8*	35·12	169	124
D	Haslemere (Furnace Place)	F. J. Barlow, Esq.	5	1 0	..	..	33·34	160	116
D	Haslemere (Grayshurst)	C. W. Dixon, Esq.	5	1 0	621	..	31·85	156	119
D	Hambledon (Rossall)	L. R. Furneaux, Esq.	5	1 0	250	..	28·70	172	110

2.—MEDWAY. 50 sq. mi.

D	East Grinstead (Lockeridge)	Lt.-Col. J. F. Forbes, D.S.O.	5	1 0	320	..	30·07	183	126
D	Dormans Park (Chartham Park)	I. D. Margary, Esq.	5	1 0	270	..	29·20	178	120
D	Dormans Park (Hill Crest)	Dr. H. R. Mill	5	1 0	320	..	30·55	180	127
D	Lingfield (Felcourt)	R. McAlpine, Esq.	5	1 3	225	..	28·76	172	117
D	S. Godstone (Hartsridge)	F. E. Goad, Esq.	5	0 10	450	..	27·98	176	117
D	Bletchingley (North Park Farm)	H. C. Millen, Esq.	5	1 0	300	..	28·71	194	129
	Limpsfield (Essington Priors)	Dr. A. P. Luff	5	0 4	550	..	22·61	..	..

† Formerly called Royal Botanic Gardens.

DIVISION II—SOUTH-EASTERN COUNTIES—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1932. Rainfall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
SURREY—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
2.—MEDWAY—(*con.*).								
D Godstone	C. J. Salter, Esq.	5	1 0	400	..	29·95	174	129
D Oxted (Stone Hall)	W. P. Metcalfe, Esq.	5	1 5	320	..	27·75	192	125
D Oxted (West Heath)	Norman W. Grieve, Esq.	8	1 2	500	..	30·03	175	127
3.—THAMES—Darent. 22 sq. mi.								
Limpsfield (Kent Hatch Res.)	A. E. Cornewall-Walker, Esq.	5	1 0	664	..	27·70	..	..
D Westwood (Pumping Station)	A. E. Cornewall-Walker, Esq.	5	1 0	418	..	26·67	163	118
Tatsfield School	The Headmaster	5	1 3	741	..	30·34	..	..
Chelsham (Ledgers)	Mrs. H. A. Daniell	5	1 5	620	..	29·78	..	..
D Farleigh (Croydon Ment. Hosp.)	Croydon Corporation	8	1 0	100	..	28·14	145	115
Chelsham (Fairchildes)	A. S. Daniell, Esq.	5	0 8	600	*33·7*	27·74	..	..
D Addington (Hares Bk. Pump. Sta.)	Croydon Corporation	8	1 0	331	..	28·16	196	130
D Addington Hills Reservoir	Croydon Corporation	8	1 0	472	*29·4*	26·19	155	115
D Norwood (Auckland Road)	Miss N. Cooper	5	1 5	230	*23·7*	22·51	145	111
4.—THAMES—Wandle. 71 sq. mi.								
D Kingswood (Margery Hall Res.)	W. Vaux Graham, Esq., C.E.	5	1 0	691	..	26·44	165	111
M Woldingham Reservoir (*New G*)	A. E. Cornewall-Walker, Esq.	5	1 0	841	..	30·51	..	..
D Woldingham	Miss V. K. Isaac	5	1 0	797	..	30·94	184	126
D Caterham Reservoir	A. E. Cornewall-Walker, Esq.	5	1 0	704	*34·6*	29·80	184	122
D Caterham Valley (Croydon Rd.)	A. M. Worfolk, Esq.	5	1 0	435	..	33·03	176	136
D Tadworth (Glade House)	W. J. Saunders, Esq.	5	1 0	545	..	28·59	189	128
D Chelsham & Woldingham W.W.	A. E. Cornewall-Walker, Esq.	5	1 0	479	..	28·48	169	120
D Woldingham (Marden Park)	J. F. N. Grange, Esq.	5	1 0	500	..	30·75	171	122
D Caterham Valley Depot	A. E. Cornewall-Walker, Esq.	5	1 0	431	..	30·62	191	126
D Coulsdon (Netherne Ment. Hosp.)	The Clerk and Steward	8	0 10	540	..	28·25	177	117
D Banstead (Burgh Heath)	Capt. E. R. Taylor	5	1 0	571	*32·6*	29·16	173	119
D Banstead (Burgh Heath Res.)	W. Vaux Graham, Esq., C.E.	5	1 0	570	*32·7*	28·14	167	124
M Chipstead (How Green Res.)	W. Vaux Graham, Esq., C.E.	5	1 0	528	..	29·06	..	..
D Kenley Pumping Station	A. E. Cornewall-Walker, Esq.	5	1 0	275	..	26·76	168	110
Coulsdon (Howard Road)†	J. H. Lowe, Esq.	5	0 6	425	..	27·35	180	113
D Coulsdon (Marlpit Lane)	Charles Knight, Esq.	5	0 6	350	..	29·52	182	121
D Banstead Mental Hospital	S. J. Wray, Esq.	5	5 0	410	..	24·98	159	122
D Purley (Council Offices)	The Surveyor	5	1 0	225	..	25·57	159	107
D Purley (Selcroft Road)	E. W. Finch, Esq.	5	1 0	380	..	25·65	171	109
D Purley (Pumping Station)	A. E. Cornewall-Walker, Esq.	5	1 0	214	*30·1*	27·12	168	114
D Purley (Green Lane)	E. E. Bluett, Esq.	5	1 0	341	..	25·58	163	119
D Purley (St. Mark's Vicarage)	Mrs. D. L. P. Shattock	5	1 0	336	..	25·41	162	115
D Croydon Aerodrome (+A)	The Meteorological Office	8	1 0	217	26·7	23·45	161	101
D South Croydon (Avondale Road)	G. Macdonald Davies, Esq.	5	1 0	195	*29·4*	25·62	187	112
d South Croydon (Harewood Rd.)	Mrs. Morland	6	0 8	300	..	25·09	..	115
D Carshalton (Sewage Works)	Surveyor, U.D.C.	5	1 0	118	*25·9*	(26·87)	165	121
D Carshalton (Park Road)	A. C. Challands, Esq.	5	1 0	200	..	23·82	151	101
d Carshalton (The Grove)	H. J. Spicer, Esq.	5	1 0	129	..	26·85	..	111
Wallington (Boys' County School)	The Headmaster	5	1 0	155	..	(25·68)	..	..
d Beddington (Sewage Farm)	Croydon Corporation	5	1 0	129	..	23·61	178	..
D Croydon (Northampton Road)	Mrs. Higgins	5	1 0	210	..	24·78	151	113
d Beddington Corner (Millgreen Rd.)	Messrs. G. Miller & Son	5	4 6	77	..	28·24	..	111
D Upper Norwood (Beulah Hill)	Rev. A. H. Shaw.	6	1 0	400	..	27·90	174	128
D Wimbledon (Trinity Road)	P. J Bevan, Esq., C. E.	5	1 0	53	..	23·86	136	115
D Wimbledon (Compton Road)	G. H. Cheesman, Esq.	5	1 6	80	..	22·44	155	110
D Wimbledon (Sewage Pmp. Sta.)	T. Webster, Esq., C.E.	5	1 0	55	..	23·80	151	108
5.—THAMES—Mole & c. 229 sq. mi.								
D Beare Green (Wigmore)	S. Mortimer, Esq.	5	1 0	300	..	26·12	178	116
d Horley (Wrays)	A. R. Allcroft, Esq.	5	1 0	290	..	(28·80)	(159)	(142)
D Outwood (The Orchards)	H. Gurney, Esq.	5	1 0	274	*26·0*	26·70	161	120
D Dorking (Bramerton)	Rev. Jas. F. Twist	5	1 0	300	..	29·80	163	128
Dorking (Denbies)	Mr. J. Ansell	5	0 6	610	32·2	30·67	..	..
d Brockham	H. R. Kempe, Esq., C.E.	8	0 9	180	*31·2*	27·08	..	118

† Previously at Coulsdon (The Chase).

DIVISION II—SOUTH-EASTERN COUNTIES—(*con.*).

	STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1932. Rainfall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
	SURREY—(*con.*).		*in.*	*ft. in.*	*ft*	*in.*	*in.*		
	5.—THAMES—Mole & c.—(*con.*).								
D	Betchworth (Snower Hill)	T. DuBuisson, Esq.	8	0 11	250	..	29·04	174	128
d	South Nutfield (Hale Edge)	Mrs. B. Grant	5	1 0	250	*28·7*	24·88	..	132
D	Earlswood (Sewage Farm)	G. G. Sanderson, Esq., C.E.	5	1 6	196	..	24·07	158	115
D	Reigate (Hill-top Road)	H. E. Irving Taylor, Esq.	5	0 10	375	..	27·06	172	117
D	Redhill (London Road)	A. E. Cornewall-Walker, Esq.	5	1 0	270	..	26·03	174	115
D	Reigate (Woodcote)	Herbert Crosfield, Esq., J.P.	5	0 10	310	..	28·34	186	120
D	Reigate (Wray Park Road)	W. J. MacAndrew, Esq.	5	1 0	330	28·9	27·71	176	115
D	Reigate (Castle Grounds)	G. G. Sanderson, Esq., C.E.	5	1 0	350	*30·4*	28·38	185	118
D	Reigate (Thurso)	F. S. Smith, Esq.	8	1 0	270	..	28·13	159	112
	Reigate (Raglan Rd.)	G. E. Collip, Esq.	5	1 1	450	..	29·15	..	..
D	Nutfield (Elstree) *new g.*	D. Morphew, Esq.	5	1 0	430	..	26·85	179	115
d	Bletchingley (South Park Fm)	Uvedale H. Lambert, Esq.	5	1 0	340	*31·4*	27·29	..	105
D	Merstham (Gatton Point)	C. F. Bull, Esq.	5	1 0	300	..	26·57	185	112
	Effingham	A. E. Cornewall-Walker, Esq.	5	1 0	363	..	27·73	..	..
D	Gatton (The Cottage)	J. F. E. Goad, Esq.	5	0 11	434	..	26·71	210	129
D	Headley Rectory	Rev. T. E. R. Phillips	5	1 0	570	..	29·32	182	124
d	Headley (The Hurst)	Mrs. Lyall	5	1 3	420	*32·2*	28·98	(160)	(117)
D	Walton-on-the-Hill	Mr. J. Millichamp	5	1 0	600	*31·7*	28·17	196	131
D	Fetcham W.W.	A. E. Cornewall-Walker, Esq.	5	1 0	102	..	25·81	174	119
D	Leatherhead (Dunard Lodge)	G. R. Crompton, Esq.	8	1 0	233	..	26·69	184	114
d	Leatherhead (Windfield)	Mrs. Still	5	1 5	250	..	25·80	..	121
D	Epsom College	S. A. Weare, Esq.	8	1 6	300	..	23·77	155	110
D	Epsom (Sewage Farm)	E. G. Timbrell, Esq., C.E.	8	1 0	120	*25·4*	23·53	158	113
D	Whiteley Village (Fox Oak)	H. E. Cooke, Esq.	8	3 4	195	..	24·45	170	110
D	Cobham (Uplands)	R. S. Morrish, Esq.	5	0 6	180	..	27·37	161	131
d	Cobham (Sandroyd School)	C. St. John Shortt, Esq.	5	1 6	120	..	25·19	..	..
	Weybridge (St. George's Hill)	Mrs. Buckley	5	0 10	200	..	24·00	..	..
d	Sutton (Camborne Road)	F. Alan Wright, Esq.	5	1 0	250	*29·3*	23·13	..	99
D	Claygate (Hertslets)	N. C. Armitage, Esq.	5	1 0	106	..	23·41	190	118
D	Esher (Halidon)	D. H. Baird, Esq., C.B.E.	5	1 5	114	..	24·98	165	121
D	Sutton (Waterworks)	W. Vaux Graham, Esq., C.E.	5	1 6	166	*26·0*	23·72	150	104
D	Sutton (Sewage Works)	W. H. Grieves, Esq., C.E.	5	2 5	99	*28·8*	22·76	153	106
d	Worcester Park (Sewage Works)	W. H. Grieves, Esq., C.E.	5	3 0	60	..	23·69	..	112
D	Surbiton (Seething Wells)	Met. Water Board	5	0 10	34	*24·9*	23·07	155	116
D	Surbiton (Effingham Road)	K. G. Willis, Esq.	5	1 1	35	..	23·45	194	120
D	West Molesey (Walton Works)	Met. Water Board	5	0 6	35	23·5	23·25	151	118
D	New Malden (Dunbar Road)	J. W. Harris, Esq.	5	1 0	50	..	23·44	162	118
D	New Malden (Sewage Works)	R. H. Jeffes, Esq., C.E.	5	1 0	48	*23·4*	21·25	148	107
d	Kingston (County Hall)	W. E. Robinson, Esq.	5	0 9	31	*26·0*	20·92	..	112
D	Kingston (Grammar School)	The Headmaster	5	1 0	34	..	22·11	138	105
D	Kingston Sewage Works	P. G. Lloyd, Esq.	5	1 0	25	*27·9*	21·02	140	110
D	Merton Park (Mostyn Rd.)	A. T. Bench, Esq.	5	1 0	55	..	24·20	179	110
D	Merton Park (Innes Hort. Inst.)	Garden Superintendent	5	1 0	55	..	23·07	152	115
D	Merton (Joseph Hood Rec. Gd.)	The Engineer	5	1 0	48	..	22·13	156	112
D	Raynes Park (C. School)	The Headmaster	5	1 0	50	..	22·42	157	108
D	Raynes Park (CottenhamPk P.S.)	T. Webster, Esq., C.E.	5	1 2	50	*24·9*	22·77	146	105
D	Raynes Park (Richmond Road)	W. B. de Winton, Esq.	5	1 0	70	..	24·13	175	122
D	Wimbledon (Worple Road)	N. Lang Smith, Esq.	5	1 0	75	..	23·03	165	111
D	Richmond (Terrace Gardens)	G. Humpfreys, Esq.	5	1 6	25	*24·9*	22·16	155	114
D	Richmond (Kew Observatory) (+A)	The Meteorological Office	8	1 0	18	23·8	22·01	150	108
D	Mortlake (Hammersmith Cem.)	R. J. Brown, Esq.	5	1 0	23	..	20·39	143	111
D	Kew (Royal Botanic Gardens)	The Director	8	0 9	20	..	21·84	146	111
D	Barnes (Barn Elms)	Met. Water Board	5	1 0	16	..	22·39	152	114
	6.—THAMES—Wey. 236 sq. mi.								
D	Haslemere (U.D.C. Depot)	A. G. Whitcher, Esq.	5	1 0	475	*36·2*	36·55	170	122
D	Haslemere (U.D.C. Sewage Works)	A. G. Whitcher, Esq.	5	1 0	414	..	36·75	179	128
D	Haslemere (Frensham Hall Gdns.)	H. Windibank, Esq.	5	2 0	750	..	36·78	177	131
D	Haslemere (Frensham Hall Farm)	H. Windibank, Esq.	5	1 0	600	*37·4*	35·28	172	129
D	Hindhead (Littledale)	F. Harrison, Esq.	5	1 0	770	..	33·36	151	126
D	Oakwood Hill (Honeywood Ho.)	The Lady Tredegar	5	1 0	280	..	28·41	200	121
D	Witley (King Edward's School)	E. Townsend, Esq.	5	1 0	300	..	30·76	171	112
D	Witley (King George V. Sanatm.)	Dr. J. Watt	5	1 0	305	..	30·10	161	112

DIVISION II—SOUTH-EASTERN COUNTIES—(*con.*).

	STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Rain-gauge: Average Rainfall.	1932. Rainfall.	1932. Days with ·01 in. or more.	1932. Days with ·04in. or more.
	SURREY—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
	6.—THAMES—Wey—(*con.*).								
D	Churt (Furze Hills)	Rev. C. G. O. Bond, M.A.	5	1 6	390	..	31·99	202	139
D	Churt (Bron-y-dê)	Rt. Hon. D. Lloyd George	8	1 11	350	..	31·18	181	121
D	Hascombe Place	C. T. Musgrave, Esq.	5	1 0	390	*33·5*	33·22	172	118
D	Cranleigh (Ruffold Lodge)	R. H. Pearce, Esq.	5	1 3	..	..	27·80	180	116
D	Godalming (Hascombe)	Mrs. Francis Howard	5	1 0	390	..	33·18	169	124
	Godalming (Hascombe Court)	Sir John Jarvis, Bt.	5	1 0	400	..	31·10	..	..
D	Ewhurst (Coneyhurst)	Col. R. J. Few, D.S.O.	8	1 0	561	*33·7*	31·57	153	123
D	Ewhurst (The Four Winds)	Miss E. Brooke	5	1 0	809	..	32·95	181	141
d	Cranleigh (Winterfold House)	The Head Gardener	8	1 6	550	..	29·57	..	111
D	Frensham (Spreakley Hollow)	A. R. Crossley, Esq.	5	1 0	200	..	30·09	171	118
d	Godalming (Munstead Heath)	A. M. P. Hodsoll, Esq.	5	1 0	450	..	28·79	..	114
d	Godalming (Greylees)	A. Ewan, Esq.	5	1 0	150	..	25·85	..	105
	Godalming (Westbrook)	T. Turner, Esq.	5	1 0	280	..	25·93	..	..
D	Godalming (Charterhouse)	O. H. Latter, Esq.	5	1 0	130	*29·2*	26·23	173	109
D	Shackleford (Hall Place)	Mr. E. Nash	8	1 2	200	..	25·69	149	116
d	Peaslake (Dewdney)	Norman Temple, Esq.	5	1 0	532	..	34·15	..	..
	Peaslake (Southcots)	H. M. Gregory, Esq.	5	0 10	420	..	32·81	..	..
D	Bramley (Wood View)	Rev. C. J. Etty	5	1 0	135	..	28·01	164	122
D	Abinger Hill School	B. R. Delap, Esq.	5	1 0	670	..	32·32	161	124
	Abinger Common (Goddards)	J. A. Gibbs, Esq.	5	1 0	586	..	30·51	209	128
	Compton (Sandyknowe Gdns.) (A)	Mrs. F. Houghton	8	1 3	250	..	25·22	..	..
D	Shere (Manor House)	R. A. Bray, Esq.	5	1 0	330	..	29·48	188	126
d	Shere (The Rectory)	Rev. Sir P. M. Bowman, Bt.	5	1 3	200	..	29·03	..	122
d	Albury (Dalton Hill Gardens)	Mr. J. Tidy	5	1 0	250	..	28·67	..	..
D	Abinger Hall	Lord Farrer	8	1 0	360	*36·5*	32·87	209	139
D	Shalford (The Hutch)	Capt. G. C. Pentland	5	1 4	170	..	22·68	141	106
D	Farnham (Crooksbury Ridges)	F. R. Walters, Esq., M.D.	5	1 4	440	*31·0*	27·84	199	123
D	Farnham (Short Heath Lodge)	Col. G. Chrystie	5	1 0	365	*30·1*	28·58	149	127
d	Puttenham (Berthorpe)	Capt. E. H. Tuckwell, M.C.	5	1 0	350	..	(25·46)	171	107
D	Guildford (Pilgrim Wood)	H. A. Powell, Esq., M.D.	5	1 0	320	..	23·64	167	107
D	Guildford (Briarfield)	Miss L. B. Swaine	5	1 0	300	*29·7*	24·62	150	114
D	Guildford (Pewley Hill)	Miss H. S. Pitman	5	1 0	365	..	26·91	214	129
D	Guildford (West Mount)	Miss M. E. Powell	5	1 0	220	..	24·57	175	117
d	Guildford (Kilvington)	Miss Meynell	5	1 0	300	..	24·33	(179)	(117)
D	Guildford (Cross Lanes)	F. F. Smallpiece, Esq.	5	1 7	200	*28·6*	24·45	164	115
D	Normandy (The Manor House)	E. S. Hose, Esq., C.M.G.	5	1 4	149	..	22·51	155	107
d	Merrow (Stoodwell)	S. Eustace, Esq.	5	0 10	250	..	26·23	..	127
D	East Clandon (Hatchlands)	F. A. Akers, Esq.	5	1 0	340	..	27·38	183	120
D	West Clandon	W. Fidkin, Esq., C.E.	8	1 0	319	..	26·21	168	115
D	Worplesdon (Tangley Place)	E. J. W. Jeudwine, Esq.	5	1 10	150	..	22·64	157	123
d	Worplesdon (Openwood)	D. H. Welch, Esq.	5	0 8	160	..	(23·25)	(151)	(117)
D	Worplesdon (Golf Club)	R. Goring Thomas, Esq.	5	1 6	168	..	23·88	153	116
D	Send (Woodside)	G. M. Osborne, Esq.	8	0 10	146	..	24·33	160	117
D	Sutton Green (Pyle Hill)	Capt. S. Price-Williams	5	1 6	140	..	21·16	146	111
D	Woking (The Grange)	Miss M. E. Wilson	5	1 0	78	*26·1*	25·48	204	125
D	Woking (Westfield)	Vernon B. Longhurst, Esq.	5	1 0	100	..	22·76	182	116
d	Woking (Hook Heath)	W. S. Patterson, Esq.	5	1 0	160	..	21·62	..	109
D	Woking (The Green)	Mrs. G. E. Howlett	5	0 9	122	..	24·05	170	118
	Woking (Goldsworth)	Mrs. S. Slocock	5	1 4	110	..	(24·06)	..	..
D	Woking (Goldsworth Rd. Depot)	Woking U.D.C.	5	2 6	96	..	22·86	160	118
d	Horsell (The Vicarage)	Rev. Canon Norman Pares.	5	1 1	140	..	20·75	..	108
D	Wisley (R.H.S. Gardens)	Royal Horticultural Soc.	8	1 0	150	24·1	24·10	174	110
D	Wisley (Outfall Works)	Woking U.D.C.	5	1 0	55	..	26·19	172	126
d	Byfleet (West Hall Gardens)	Mr. G. Carpenter	5	2 0	63	..	23·05	..	109
D	West Byfleet (Kilmeena)	F. Littleboy, Esq.	5	1 0	100	..	24·16	156	109
D	West Byfleet (Starcross)	Walter W. Way, Esq.	5	1 0	110	..	23·96	163	110
D	West Byfleet (Scotland Bridge)	Woking U.D.C.	5	1 0	69	..	25·36	161	124
D	Weybridge (St. Michael's)	H. I. Bond, Esq.	5	1 0	115	..	23·79	176	109
d	Weybridge (Heath Field)	Miss A. T. Gardiner	5	1 0	100	..	24·49	..	..
D	Weybridge (Oil Mills)	A. Whittet, Esq.	5	1 0	36	*24·1*	21·45	160	103

DIVISION II—SOUTH-EASTERN COUNTIES—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1932. Rainfall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
SURREY—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
7.—THAMES—Bourne. 55 sq. mi.								
D Knap Hill Nurseries	Donald Waterer, Esq.	5	1 0	105	..	23·16	158	106
D Chobham (Sandpit Hall)	K. H. Power, Esq.	5	1 0	100	*26·7*	23·13	161	114
D Chobham (West End)	F. A. Walter, Esq.	5	1 0	150	..	25·34	192	122
D Bagshot (Charlton)	W. Perry, Esq.	5	0 10	215	..	25·44	162	123
d Bagshot	J. Waterer Sons &Crisp,Ltd.	5	1 0	265	..	24·88	..	..
D Chertsey (Ottershaw)	L. H. Seccombe, Esq.	5	1 0	200	..	21·92	177	113
D Windlesham (Windlesham Ho.)	R.Adml.A.Cochrane,C.M.G.	5	1 0	200	..	25·63	205	116
D Upper Childown (Long Cross H.)	Miss C.M.Leycester-Penrhyn	5	1 0	200	..	23·31	204	114
d Sunningdale (Hilltop)	E. F. Cecil, Esq.	5	1 0	280	..	23·70	..	..
D Chertsey (Abbey Meads)	W. Fidkin, Esq., C.E.	8	1 0	53	..	21·29	151	109
d Virginia Water (S. Ann's Heath)	H. Y. Summons, Esq.	8	1 1	120	*25·4*	23·61	..	98
D Egham (Kingswood Sch.)	Mother H. C. Martindale	5	1 0	250	..	21·61	164	113
8.—THAMES—Lodden. 17 sq. mi.								
d Frimley Green Waterworks	S. G. Weller, Esq.	5	0 7	220	*24·6*	23·61	..	109
D Frimley Green (Ridgemount)	C. C. Haviland, Esq.	5	0 9	350	*29·1*	27·14	214	126
D Camberley (Way's End)	E. Ernest Green, Esq.	5	0 11	295	..	27·15	157	122
D Camberley (Cordwalles)	C. H. Ledward, Esq.	5	1 0	400	..	24·07	172	114
KENT. (Area, 1,532 sq. mi.)								
1.—ROTHER & C. 217 sq. mi.								
D Dungeness	The Meteorological Office	8	0 11	20	24·4	25·27	158	105
D Lydd (The Paddock)	Dr. J. A. Proctor	5	1 0	10	..	27·49	174	103
d Lydd (Westbroke House)	A. G. Finn, Esq., J.P.	5	1 0	10	..	26·70	..	96
d Brookland (Thrift Farm)	C. Clark, Esq.	12	3 0	11	..	25·48	..	93
D Dymchurch (Grove House)	R. S. Jones, Esq.	5	1 0	8	..	23·99	167	107
d Dymchurch (Hoornes)	Mrs. Paddock	5	1 0	9	..	25·12	..	103
D Appledore (The Well House)	Dr. F. W. Cock	5	1 0	23	..	26·78	157	113
d Hawkhurst (Moor House)	F. S. Springett, Esq.	5	1 0	208	..	28·72	..	107
D Hawkhurst (Hensill)	Mrs. F. Ross Thomson	5	1 0	180	*30·5*	30·75	163	117
D Kenardington (The Firs)	Cmdr. F. H. Lyon, D.S.O.	5	1 2	65	..	24·64	161	112
D Tenterden (Ashenden)	Major Herbert Neve	5	1 0	190	27·5	26·01	145	116
D Benenden (National Sanat'm)	H. Spurrier, Esq., M.B.	5	1 0	150	..	25·22	176	119
D Hythe	M. J. Harvey, Esq., C.E.	5	0 9	12	*28·0*	26·70	168	107
D Hythe (Douglas Avenue)	W. H. Elder, Esq.	5	1 0	33	..	25·04	153	106
D Hythe (Sandling Park)	The late Rt. Hon. L. Hardy.	8	1 0	260	*30·4*	30·22	154	133
D Sandgate	J. A. Woodgate Esq., C.E.	5	1 0	60	..	28·35	161	113
D Folkestone (Radnor Park West)	H. D. Seth-Smith, Esq.	5	1 0	90	..	29·63	150	123
D Folkestone (Borough Sanat'm)	Borough Engineer	5	1 0	101	*28·6*	28·91	158	117
D Folkestone (Cherry Gardens)	The Engineer	5	1 6	230	29·1	31·63	174	134
D Folkstone (Lower Standen)	The Engineer	5	2 11	250	..	28·91	152	122
D Dover (Waterloo Crescent)	W. B. Smith, Esq., C.E.	8	1 0	22	..	26·73	158	113
D Dover (Waterworks)	W. B. Smith, Esq., C.E.	5	1 6	200	*30·0*	26·59	161	114
D Dover (Buckland)	Guy Mannering, Esq.	8	1 6	50	..	30·93	153	120
D Dover (Barton Road) (+A)	Cyril G. W. Lewis, Esq.	5	1 0	55	..	28·91	185	127
D Kearsney (Chilton Farm)	W. B. Smith, Esq., C.E.	5	1 6	127	*33·5*	34·41	165	136
2.—STOUR & C. 336 sq. mi.								
D Lympne Aerodrome	The Meteorological Office	8	1 0	346	28·5	27·37	184	110
D Sellindge (Council School)	S. H. Serpell, Esq.	5	1 0	200	..	29·98	172	124
D Smeeth School	W. H. Wetherell, Esq.	5	1 0	300	..	27·23	205	132
D Lyminge (Elham Valley W.W.)	Phillip Harris, Esq	5	1 6	445	..	29·84	178	134
D Swingfield (St. John's)	Legh S. Powell, Esq.	5	1 0	500	..	32·60	169	122
D Ashford	B. H. Headley, Esq.	5	1 0	190	..	27·91	187	134
D Ashford (Albert Road)	A. E. Brounger, Esq.	5	1 0	185	..	26·57	179	117
D Elham (Bladbean Farm)	Capt. T. L. Wall	5	0 9	459	..	36·92	152	139

DIVISION II—SOUTH-EASTERN COUNTIES—(*con.*).

	STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1932. Rainfall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
	KENT—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
	2.—STOUR & C.—(*con.*).								
D	Dover (Martin Mill Pump. Stat.)	F. L. Ball, Esq.	5	1 0	287	..	28·73	153	113
D	Elham (Domel)	J. Hill, Esq.	5	1 6	459	..	34·82	146	119
D	Wye (Agricultural College)	Capt. A. H. Bird	5	1 0	164	..	28·18	164	122
D	Waldershare Rectory	Rev. H. Saumarez Smith	5	1 0	275	..	29·16	171	111
d	Waldershare Park Gardens	J. Haggett, Esq.	8	1 0	250	*33·2*	29·65	..	112
D	Shepherdswell (Upton Lodge)	Rutley Mowll, Esq.	6	1 0	300	..	31·07	172	124
D	Boughton Aluph (Fairlawn)	E. Simmons, Esq.	5	1 3	220	..	26·31	179	116
D	Charing Pumping Station	F. L. Ball, Esq.	5	1 0	295	..	25·35	169	123
D	Charing (Pett Place) *new g*	Brig.-Gen. T. M. S. Pitt	5	1 0	350	..	27·82	165	128
D	Deal and Walmer W.W.	A. Mantle, Esq.	5	1 0	110	*28·0*	26·20	164	107
D	Barham (Old House)	L. S. Osmaston, Esq.	5	0 9	175	..	26·01	171	118
D	Barham Pumping Station	F. L. Ball, Esq.	5	..	173	..	27·33	160	110
D	Deal (Wellington Road)	Town Clerk	5	1 0	25	..	22·77	147	105
D	Worth (Upton House)	Capt. W. Elwin Napier	5	1 0	32	*27·7*	25·11	153	102
D	Worth (Felder Lodge)	J. S. Campbell, Esq.	5	0 10	26	..	22·81	167	104
D	Wingham (Margate W.W.)	Mr. J. H. Parker	5	1 0	138	*28·7*	24·91	165	107
D	Chilham (Lower Ensden)	F. Ivo Neame, Esq.	5	3 0	305	..	27·57	169	121
D	Wingham Boys' School	The Headmaster	5	0 6	50	..	25·11	161	120
D	Canterbury (Medical Hall)	A. Lander, Esq.	5	1 0	124	..	24·90	152	96
D	Canterbury (London Road)	Miss B. Spillett	5	1 0	66	*28·7*	26·20	167	108
D	Canterbury (Irrigation Works)	C. Terry, Esq., C.E.	5	2 6	15	*27·5*	27·77	172	116
d	Canterbury (Rough Common)	R. W. Wood, Esq.	5	1 0	285	..	26·25	..	123
D	Ramsgate (East Cliff)	Borough Engineer	8	1 0	80	*24·0*	20·05	165	101
D	Ramsgate (Archer House)	Miss E. F. Baker	5	1 0	75	..	20·35	151	105
D	Birchington (Acol Farm)	C. S. Willett, Esq.	5	2 3	30	..	20·76	168	106
d	Reculver	Allington Collard, Esq.,	5	5 2	27	*21·8*	18·27	..	93
d	Broadstairs (Domus)	Capt. W. B. Marling	8	1 0	60	..	21·11	..	104
D	Broadstairs (Collis Court Road)	A. Watkins, Esq.	5	1 0	120	..	20·96	173	103
D	St. Peter's (Hildersham House)	H. Hurd, Esq., C.E.	5	0 9	140	23·7	25·07	161	126
d	Birchington (Hollydene)	W. Tomlin, Esq., Junr.	5	6 0	75	..	18·94	..	97
D	Margate (Cliftonville)	Town Clerk	5	1 0	51	22·8	17·98	133	85
	3.—SWALE & C. 167 sq. mi.								
D	Selling (Grove House)	F. Ivo Neame, Esq.	5	1 5	330	..	27·43	155	109
D	Selling (Luton)	F. Ivo Neame, Esq.	5	4 9	300	*30·4*	29·36	186	124
D	Sittingbourne (Torry Hill)	D. Leigh Pemberton, Esq.	5	1 0	497	..	27·29	167	124
D	Faversham (Water Wks.)	The Engineer & Manager		.. ..	120	..	24·95	163	113
d	Ospringe (Queen Court)	L. H. Finn, Esq.	8	1 3	50	..	25·95	..	111
D	Faversham (Portway)	C. Gordon Neame, Esq.	5	3 6	180	..	24·76	154	106
D	Faversham (London Road)	C. T. Hooper, Esq.	5	..	50	..	23·06	165	107
	Teynham (Norton Court)	A. L. Mercer, Esq.	5	1 6	90	..	24·00	..	..
D	Teynham (New Gardens)	Mrs. Honeyball	5	1 5	30	*24·5*	20·55	158	102
d	Graveney Marshes	L. H. Finn, Esq.	8	2 3	6	..	18·84	..	..
D	Milton Regis (Sewage Works)	Sittingbourne U.D.C.	5	1 1	19	..	20·19	133	109
	Herne Bay (Waterworks)	J. Roberts, Esq.	5	1 0	130	*22·8*	19·93	..	..
D	Herne Bay (Memorial Park)	The Surveyor	5	1 0	14	..	18·23	141	85
d	Sheppey (Eastchurch Parsonage)	H. C. Warren, Esq.	5	1 0	100	*22·9*	18·56	..	..
D	Sheerness	Dr. W. C. D. Hills	5	1 0	9	..	19·32	139	98
	4.—MEDWAY. 506 sq. mi.								
d	Bedgebury Park Gardens	Mr. H. Arnold	5	1 0	280	..	30·11	..	113
d	Kilndown School	J. A. Ager, Esq.	5	1 3	365	..	26·65	..	111
D	Scotney Castle	E. W. Hussey, Esq.	5	3 9	203	*26·8*	25·55	165	99
D	Cranbrook (Little Glassenbury)	J. I. Stirling, Esq.	5	0 10	360	..	27·93	162	117
d	High Halden (Middle Quarter)	Mrs. J. E. Budding	5	1 0	114	..	23·19	..	..
D	Goudhurst (Gore Court)	J. A. Druce, Esq.	5	1 0	197	*30·3*	25·92	156	119
D	Tunbridge Wells (Hawkenbury)	D. W. Horner, Esq.	5	1 6	435	..	29·24	183	122
D	Tunbridge Wells (Rusthall Grange)	A. G. Robins, Esq.	5	1 0	440	..	27·77	171	121
	Tunbridge Wells (Langton Green)	Miss E. M. Pott	5	1 0	420	..	25·94	184	132
D	Tunbridge Wells (Calverley Pk.) *new site*	Dr. F. C. Linton	5	1 0	354	..	27·03	158	111
D	Tun. Wells (The White House)	Miss Monica G. Robins	5	1 6	350	..	29·09	157	136

DIVISION II—SOUTH-EASTERN COUNTIES—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1932. Rainfall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
KENT—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
4.—MEDWAY—(*con.*).								
d Matfield (Kings Mead)	Henry Hills, Esq.	5	1 6	390	..	25·74	..	..
D Brenchley (The Warren)	Dr. Carl Langer	5	0 6	270	..	26·70	168	119
D Speldhurst Rectory	Rev. Canon H. Masters	5	0 10	334	..	27·21	167	125
D Pembury (The Spring)	Miss A. P. Fowler	5	1 0	416	..	28·51	185	144
D Pembury Waterworks	W. H. Maxwell, Esq., C.E.	8	1 8	197	..	24·68	160	117
Southborough (Tentergarth)	Miss E. Powell	5	0 11	421	..	27·15	..	..
D Markbeech (Edells)	Miss M. F. Pearse	5	1 0	320	..	27·46	190	124
D Edenbridge (Falconhurst)	Hon. Mr. Justice Talbot	5	1 6	375	30·7	28·96	168	125
D Edenbridge (Stonewall Park)	E. G. B. Meade-Waldo, Esq.	5	1 1	344	..	26·26	162	115
D Edenbridge (Gilridge)	J. Mavrogordato, Esq.	5	1 0	400	..	29·36	178	119
D Edenbridge (Hever Castle)	Mr. A. McCutcheon	5	1 0	200	..	25·53	151	113
D Headcorn (Upalong)	R. S. Hartree, Esq.	5	1 3	100	..	21·13	145	99
d Pluckley (Brick Works)	Guy G. Davies, Esq.	5	1 6	112	..	22·82	(180)	(107)
D Penshurst Place	Lord De L'Isle and Dudley	5	1 0	120	..	27·75	188	119
d Penshurst (Parkholt)	J. M. Sturgess, Esq.	5	0 9	265	..	24·26	..	118
D Tonbridge (Mabledon Park)	J. F. W. Deacon, Esq.	5	1 6	190	..	25·08	165	114
D Tonbridge (Ingleside)	A. H. Neve, Esq.	5	1 1	160	..	25·09	168	120
Tonbridge (Thorpe Avenue)	F. J. Reed, Esq.	5	1 0	150	..	23·23	155	110
D Hildenborough (Gailes)	E. E. Roper, Esq.	5	1 0	159	..	23·97	157	114
D Hildenborough (Hollanden Ho.)	C. H. Scott, Esq.	8	1 0	99	..	24·22	182	112
d East Peckham (Central Stores)	W. H. Pearson, Esq.	8	1 0	48	..	23·43	..	110
D Langley (Rumwood Court)	Mr. W. J. Gould	5	1 9	354	..	23·98	175	114
d Harrietsham (Dun Akyune)	C. Mackinnon, Esq.	5	1 4	400	..	26·96	..	134
D Lenham	D. F. Tysoe, Esq.	5	1 6	400	..	25·37	162	121
D Nettlestead (Old Quarry)	W. Pye-English, Esq.	5	1 0	286	..	24·41	191	120
D Otham (Synyards)	Ambrose Boyson, Esq.	5	1 0	315	..	25·19	202	121
D Sevenoaks (River Hill) *new g*	Lt.-Col. J. M. Rogers, D.S.O.	5	1 0	500	30·0	28·21	170	130
D Hollingbourne (Penn Court)	S. Lucy, Esq.	5	1 1	261	..	24·04	160	119
D Maidstone W. W. (Barming)	C. H. Harden, Esq., C.E.	5	1 4	245	..	21·74	157	106
D Wrotham Heath (Huntsman's Ldge)	G. B. Kershaw, Esq.	5	1 9	284	..	26·35	160	119
D Maidstone (Mill Street)	T. F. Bunting, Esq.	8	6 0	37	..	22·40	176	111
D Maidstone (Brenchley Gardens)	T. F. Bunting, Esq.	5	0 9	49	..	22·70	167	113
D East Malling (Research Station)	Kent County Council	8	1 0	127	..	21·44	141	99
Maidstone (Allington Lock)	Mr. W. Smith	5	1 0	20	..	21·19	..	103
D Aylesford (Forstal P. Stn.)	C. H. Harden, Esq., C.E.	5	1 0	20	..	20·58	149	98
D Detling (The Croft) *new g*	R. Cooke, Esq.	5	1 0	330	*27·8*	25·12	206	121
D Trosley Pumping Station	F. L. Ball, Esq.	5	1 8	250	..	23·31	157	107
D Maidstone W.W. (Boxley)	C. H. Harden, Esq., C.E.	5	1 0	286	..	23·10	170	108
d Wrotham (Holywell Park)	R. H. Foa, Esq.	5	1 0	690	..	(23·69)	..	..
D Chatham (Woolmans Wood)	W. Coles Finch, Esq., C.E.	5	3 0	470	..	23·01	146	106
d Halling Pumping Station	F. L. Ball, Esq.	5	1 0	75	..	20·49	..	111
D Chatham (Luton W.W.)	W. Coles Finch, Esq., C.E.	5	3 0	88	..	21·76	148	105
D Rainham (Motney Hill)	J. B. Harvey, Esq.	5	1 0	28	..	18·38	130	90
D Rochester (Deanery Gate)	Warwick Stunt, Esq.	5	1 6	50	..	18·58	147	91
D Strood Waterworks (+A)	W. Law, Esq., C.E.	5	1 0	112	..	18·68	153	94
5.—THAMES—Darent & c. 256 sq. mi.								
d Westerham Town	Met. Water Board	5	1 0	380	..	29·60	(182)	(133)
D Westerham Hill Pumping Stat.	Met. Water Board	5	1 0	539	..	28·55	188	130
D Sundridge Rectory	Rev. C. C. Gosselin	5	1 0	280	..	27·34	166	116
D Sundridge Pumping Stn.	Met. Water Board	5	1 0	270	..	26·37	164	113
M Sevenoaks (Tonbridge Rd. Res.)	F. Vallins, Esq.	5	1 6	556	..	23·53	..	..
D Sevenoaks (Speldhurst Close)	H. Willoughby Ellis, Esq.	5	1 0	470	..	25·17	186	123
D Sevenoaks (Knole Park)	E. Stubbs, Esq.	5	1 0	500	..	28·29	191	124
d Tatsfield (Betsoms Hill)	Met. Water Board	5	0 7	820	..	32·27	(201)	(138)
M Seal (Oak Bank Reservoir)	F. Vallins, Esq.	8	1 0	550	..	24·53	..	..

DIVISION II—SOUTH-EASTERN COUNTIES—(*con.*).

	STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1932. Rainfall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
	KENT—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
	5.—THAMES—Darent & c.—(*con.*).								
M	Seal (St. Lawrence Reservoir)	F. Vallins, Esq.	8	1 0	665	..	25·05	..	..
M	Seal (Kemsing Pumping Stat.)	F. Vallins, Esq.	5	1 0	292	..	25·58	..	..
D	Sevenoaks (Chevening Gardens)	Mr. J. C. Sutton	5	1 0	360	..	28·66	179	118
D	Knockholt (Kent Waterworks)	Met. Water Board	5	1 0	785	*29·9*	28·20	170	123
D	Biggin Hill (Aerodrome)	The Meteorological Office	8	1 0	567	31·4	26·03	172	112
D	Fairseat (Fairseat House)	Col. W. Pitt, C.M.G.	5	1 0	670	..	26·09	149	100
D	Chelsfield (Hewitts)	W. A. Waring, Esq.	5	4 0	476	..	24·24	167	119
d	Eynsford Pumping Station	Met. Water Board	5	1 0	100	..	21·35	..	104
D	Eynsford Hill	Arthur Mee, Esq.	5	1 0	358	..	22·91	174	112
d	Farningham (Foxhole)	R. J. Watson, Esq.	5	1 0	202	..	18·74	..	100
D	Orpington (Kent Waterworks)	Met. Water Board	5	1 0	220	..	25·36	154	117
D	W. Wickham (Woodland Way)	D. A. Worthington, Esq.	5	0 9	325	..	25·40	169	113
d	Crockenhill (Wested Farm)	A. T. Miller, Esq.	5	1 6	331	..	21·61	..	..
D	Cobham (Crossways)	Miss F. H. Pye	5	3 0	320	..	22·78	171	111
D	Bickley (Farrants)	Miss Chalmers	5	1 0	250	..	24·17	150	102
	Bromley (Sundridge Avenue)	Dr. H. Wynne Thomas	5	1 0	200	..	22·20	..	..
D	Bromley	The Borough Engineer	5	1 0	213	..	22·40	157	104
D	Bromley (Plaistow Lane). Thelate	Col.E.Satterthwaite, C.B.,V.D.	5	0 9	234	*25·9*	23·34	162	116
d	Penge (Recreation Ground)	H. W. Longdin, Esq., C.E.	5	1 1	122	*25·2*	23·55	..	111
d	Anerley (Oakfield Road)	Miss S. Stannard	5	1 5	..	..	23·65	..	109
D	Chislehurst (Hawkwood)	Miss M. C. Edlmann	5	1 0	300	..	21·00	168	106
	Chislehurst (Holbrook Lane)	W. P. Jones, Esq.	5	1 0	325	..	22·80	..	..
D	Chislehurst (Scadbury Park)	Mr. B. Orchard	5	1 0	250	..	21·27	161	110
d	Swanley (Horticultural College)	The Principal	5	1 0	155	..	18·38	..	102
D	Southfleet (Kent Waterworks)	Met. Water Board	5	1 0	82	..	17·61	147	92
D	Wilmington (Kent Waterworks)	Met. Water Board	5	1 0	25	..	18·79	154	104
D	Dartford (West Hill)	Mr. J. Taylor	5	1 3	100	..	19·90	140	103
D	Dartford (Tower Road)	C. O. Hunt, Esq.	5	0 6	125	..	19·54	166	104
D	Stone (City of Lond. Ment. Hosp.)	J. Gower, Esq.	5	1 0	200	..	18·10	146	99
D	Dartford (Sewage Works)	The Resident Engineer	5	1 0	14	..	17·32	149	101
D	Erith Sanatorium	Erith U.D.C.	5	1 0	182	..	21·29	159	103
D	Erith (Sewage Works)	Erith U.D.C.	5	1 0	13	..	20·00	148	101
D	Erith (St. Joseph's Convent)	Erith U.D.C.	5	1 0	213	..	22·55	158	105
D	Higham Waterworks	C. H. Clark, Esq.	8	1 0	141	..	19·01	183	99
D	Erith (Crossness)	London County Council	14	0 6	16	..	19·46	153	109
	SUSSEX. (Area, 1,458 sq. mi.								
	1.—LAVANT & C. 175 sq. mi.								
D	Aldwick (Greenways)	D. S. Hancock, Esq.	5	1 0	25	..	27·05	152	97
D	Bognor Regis (Waterloo Square)	The Town Clerk	8	1 0	20	25·9	27·32	157	104
D	Bognor Regis (Albert Road)	W. L. Guermonprez, Esq.	8	1 0	17	..	27·57	170	105
D	North Mundham Vicarage	Rev. A. F. H. Outram	5	0 9	0	..	31·80	174	115
d	Merston (Abelands)	Miss V. Kennard	5	0 6	24	..	30·39	..	108
D	Bosham (Cobnor)	Major S. W. P. Beale	5	1 6	12	..	30·02	173	110
D	Barnham (Downview Road)	Mrs. A. C. Bisset	5	1 0	20	..	29·49	157	123
D	Chichester (Kingsham Farm) (R)	W. Lawson, Esq.	8	0 10	35	..	32·54	197	118
D	Chichester (Westgate)	G. Ashley Tyacke, Esq.	8	1 0	40	28·7	30·53	158	112
D	Chichester (West Street)	Dr. W. Dick	5	1 0	40	..	28·90?	141	106
d	Chichester (County Hall)	Stanley Morris, Esq.	5	1 0	45	..	31·02	(164)	(112)
d	Chichester (Oakwood House)	Mrs. Baring Du Pre	5	1 0	101	..	30·54	..	114
D	Chichester (West Broyle Gdns.)	Mrs. Weller-Poley	5	1 4	107	..	31·23	149	113
D	Funtington House	J. A. Greenwood, Esq.	5	1 0	95	..	32·49	151	125
D	Lavant	Miss J. F. Paxton	5	1 0	100	..	31·00	159	116
D	Chichester (Goodwood Gardens)	Duke of Richmond&Gordon	5	1 3	133	..	33·37	180	118
D	Emsworth (Stansted Park)	Earl of Bessborough	5	2 6	140	..	36·58	220	139
D	Emsworth (Watergate House)	W. M. Christy, Esq.	5	1 0	222	..	35·83	174	130
D	West Dean Park	Mr. W. H. Smith	5	1 0	190	..	39·15	166	127
D	Chilgrove House	E. L. Woods, Esq.	5	1 0	266	..	38·72	161	127
D	Compton (Compton House)	Miss K. B. Langdale	5	1 0	263	36·6	38·29	165	135

DIVISION II—SOUTH-EASTERN COUNTIES—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1932. Rainfall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
SUSSEX—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
2.—ARUN. 285 sq. mi.								
D Littlehampton (Met. Station)	The Sanitary Inspector	5	1 0	27	..	26·62	152	104
D Rustington (Bracondale Nurs.)	J. Muir, Esq.	5	0 10	30	..	29·60	146	111
D Lyminster Vicarage	Rev. Dr. S. P. Duval	5	1 0	20	..	26·01	152	107
D Arundel (Cross Bush)	Miss M. Orme	5	1 3	125	..	28·69	190	112
D Patching Farm	Michael Drewitt, Esq.	5	1 0	180	30·8	29·96	142	110
Harting (Down Place)	R. G. Blackwell, Esq.	5	1 2	401	..	39·79	151	123
D Storrington (Badgercroft)	P. Herington, Esq.	5	0 6	250	..	35·57	164	122
D Storrington Rectory	Mrs. Faithfull	5	1 1	..	..	31·35	147	113
Bignor	Major G. B. Hill	5	1 0	175	..	38·09	..	..
d Pulborough (Parham)	Hon. Clive Pearson	5	..	98	..	29·83	..	110
Pulborough (Nutbourne)†	Mrs. Burney Young	5	1 4	100	..	(29·75)	..	..
D Pulborough (Codmore Hill)	Rev. C. Ash	5	2 0	165	..	32·22	175	131
Fittleworth Rectory	Rev. A. C. Lucey	5	1 9	135	..	32·23	..	..
D Selham (Selham House)	C. C. Lacaita, Esq.	5	1 0	115	..	35·86	144	119
D Petworth Park Gardens	Lord Leconfield	5	1 0	182	..	34·74	161	115
D Tillington (Westmoor)	Mrs. Randall	5	1 0	200	..	34·88	168	127
d Midhurst (June Lane)	H. O. Purser, Esq.	5	1 0	120	..	33·90	..	118
d Midhurst (Fairview)	Miss P. Eames	5	1 0	..	..	35·84	..	111
d Billingshurst (The Nook)	Chas. F. Rilot, Esq.	5	1 0	120	..	27·79	..	103
d Rogate	Mrs. Kennion	5	1 0	500	..	42·42?	..	..
D Kirdford (Hills Green)	L. Baker, Esq.	5	1 0	150	..	30·72	153	112
D Liss (Hill Brow)	F. W. Beckford, Esq.	5	1 0	488	..	37·15	190	131
d Fernhurst (Ashurst)	The Head Gardener	5	1 0	280	..	(36·00)	..	..
d Lower Beeding (The Warren)	Leicester M. Reed, Esq.	5	0 10	430	..	28·96	..	..
d Horsham (Christ's Hospital)	Major Gabriel Green, M.C.	8	1 3	160	..	25·64	..	..
D Horsham (Tower Hill)	C. Marsh, Esq.	5	1 0	220	..	26·73	171	112
D Horsham (Sewage P.S.)	C. G. Atkinson, Esq.	8	1 0	118	..	28·23	173	117
d Horsham (Wimblehurst)	Miss E. M. Allcard	5	1 0	195	30·0	27·13	..	113
d Horsham (Dunedin)	A. C. Holland, Esq.	5	1 0	220	..	28·42	..	118
D Rusper (The Nunnery)	Sir Cecil J.B. Hurst, G.C.M.G.	5	1 6	260	..	28·68	178	122
3.—ADUR & C. 237 sq. mi.								
d Peacehaven	Commander W. S. Davenport	5	1 0	119	..	23·98	..	97
D Rottingdean School	Mr. T. A. Sandalls	5	1 0	120	..	25·44	161	104
D Rottingdean (Hillside)	Admiral H. J. L. Clarke, C.B.E.	5	1 0	60	..	24·49	135	102
D Worthing (Beech House Pk.) (+A)	Medical Officer of Health	8	1 0	35	27·5	23·91	148	94
D Brighton (Old Steyne)	The Medical Officer of Health	5	1 0	32	28·1	22·94	141	103
D Portslade (Midways)	E. C. Smith, Esq.	5	1 0	30	..	25·22	147	116
D Hove	The Medical Officer of Health	5	1 6	27	..	24·23	156	107
D Hove (Park House)	Guy Michell, Esq.	5	1 0	120	..	27·89	162	121
D Hove (Old Shoreham Rd.)	Chas. Modlen, Esq.	5	0 11	145	..	27·01	153	120
D Brighton (Dyke Road)	R. A. Penney, Esq.	5	1 0	240	..	25·93	149	110
D Lancing College	The Headmaster	5	1 0	120	..	28·71	148	124
D Brighton W. W. (Goldstone Bot.)	A. B. Cathcart, Esq., C.E.	8	1 0	142	..	25·48	162	116
D Brighton W.W. (Lewes Road)	A. B. Cathcart, Esq., C.E.	8	3 10	140	29·9	28·51	169	113
D Brighton W.W. (Shoreham)	A. B. Cathcart, Esq., C.E.	8	1 8	12	..	28·85	173	116
D Brighton W.W. (Mile Oak)	A. B. Cathcart, Esq., C.E.	8	1 3	166	..	27·97	160	117
D Brighton W.W. (Race Hill Res.)	A. B. Cathcart, Esq., C.E.	8	1 3	469	..	28·96	169	113
D Falmer (Brighton W.W.)	A. B. Cathcart, Esq., C.E.	8	1 4	202	..	29·90	173	118
D Patcham (Brighton W.W.)	A. B. Cathcart, Esq., C.E.	5	1 1	206	..	29·07	154	119
D Bramber (Burletts)	Hatton G. Sugden, Esq.	5	1 0	75	..	38·14	193	127
D Washington Vicarage	Rev. A. H. S. Pattrick	5	1 0	251	..	34·49	181	109
D Ditchling (Neston)	J. Brown, Esq.	5	1 1	170	..	34·56	164	117
D Hassocks (Wilmington Lodge)	C. T. Agar, Esq.	5	1 0	200	..	32·92	156	116
D Hassocks (The Croft)	Harold Taylor, Esq.	5	1 0	200	..	34·37	160	121
d Keymer	J. Francis Jupp, Esq., C.E.	5	1 0	..	..	33·99	..	123
D Burgess Hill (Donisthorpe)	Mrs. A. Malden	5	1 6	190	..	31·19	189	123
D West Grinstead (Danefold)	Miss T. Gaisford	5	1 0	130	..	28·22	157	117
d Coolham	C. E. Cleeves, Esq.	5	1 0	80	..	29·57	..	109
D Billingshurst (Duncan's Farm)	Miss Edith Beck	5	1 0	130	..	30·69	171	122
D Slinfold (Elmhurst Farm)	Elmhurst Fmg. & Trdg. Co.	5	0 10	200	..	28·85	196	126

† Station previously at Nutbourne Manor.

DIVISION II—SOUTH-EASTERN COUNTIES—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1932. Rainfall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
SUSSEX—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
4.—OUSE.—224 sq. mi.								
D Seaford (Bowden Ho. School)	J. F. Thomas, Esq	5	1 0	190	..	25·87	139	96
D Seaford (Newlands)	T. Davys Manning, Esq.	5	1 0	100	..	25·60	142	90
D Seaford (Southdown School)	C. W. Perfect, Esq.	5	1 6	120	..	27·43	132	100
D Seaford	The Surveyor	5	1 0	140	..	23·94	131	87
D Newhaven (Poverty Bottom W.W.)	F. B. Lumsden, Esq.	8	1 0	51	..	26·51	143	107
d Lewes (Littledene)	Mr. J R. Howard	8	1 0	58	..	29·02	..	..
D Lewes W. W. (Kingston)	J. T. P. Johnston, Esq.	8	1 3	13	..	32·88	203	122
Barcombe (The Gables)	L. S. F. Woodhead, Esq.	8	1 0	100	..	33·81	..	..
d East Hoathly (Halland Park)	R. Shanks, Esq.	5	1 6	250	..	31·10	..	..
Framfield (High Cross)	Maj. R. L. Thornton, C.B.E.	5	1 0	195	..	27·36	..	..
D Newick (Holly Grove)	Mrs. A. K. Slessor	5	0 10	150	..	30·06	162	121
d Haywards H. (Abbots Leigh)	C. Hales, Esq., J.P.	.	..	200	..	29·37	..	..
D Haywards H. (Paddockhall Rd.)	L. E. Hervey, Esq.	5	1 0	260	..	31·47	179	124
Buxted (Strawberry Hall)	C. Rintoul, Esq.	5	1 0	180	..	27·75	161	..
D Mayfield (Five Ashes)	Miss Emily Aston	5	1 1	300	..	26·72	177	111
D Lindfield (The Common)	R. H. Robertson, Esq.	5	1 6	250	..	30·84	170	118
D Uckfield (Fairwarp)	Col. A. E. Barchard	5	0 10	475	..	31·76	166	134
D Oldlands Hall (R)	Sir B. Eckstein, Bart.	8	3 0	400	..	31·31	179	129
D Horsted Keynes (Holy Well P.S.)	F. Martin, Esq., C.E.	8	1 9	124	..	28·92	152	117
D Ardingly (Lywood House)	G. Forrester Scott, Esq.	5	0 9	240	..	29·90	189	124
D Ardingly (Wakehurst Place)	G. W. E. Loder, Esq.	8	1 3	437	..	33·49	192	128
D Horsted Keynes (Birchgrove)	Miss G. C. Price-Davies	5	1 0	400	..	32·08	201	118
D Balcombe (Lullings)	Mrs. M. Holland	5	1 0	348	..	34·54	181	135
D Balcombe (The Gables)	Mr. G. J. Warren	8	1 3	358	..	35·98	184	147
D Balcombe (Stockcroft)	Dr. R. Newton	5	1 1	341	..	33·05	181	131
D Balcombe (Waterworks)	F. Martin, Esq., C.E.	8	1 0	467	..	32·44	171	135
D Balcombe (Highley Manor)	Mr. B. T. Brooks	8	1 6	420	..	32·24	186	138
D West Hoathly (Stonelands)	J. Godwin King, Esq.	5	1 0	450	..	32·42	175	124
5.—CUCKMERE & C. 189 sq. mi.								
D Beachy Head	The Meteorological Office	8	1 0	..	..	30·21	150	113
D Eastbourne (West Lodge)	Miss E. K. Beauford	5	1 0	120	..	26·99	149	100
D Eastbourne (Wilmington Sq.)	Dr. W. G. Willoughby	5	1 0	35	30·7	27·93	154	104
D Eastbourne (Motcombe Gdns.) (A)	Major L. Roseveare, C.E.	11	1 7	59	..	29·03	146	105
D Eastbourne (Arundel Road)	Miss G. J Woodd	8	1 6	86	..	27·62	156	109
D Friston	Eastbourne W.W.	8	1 0	104	..	27·38	163	111
D Jevington	Eastbourne W.W.	8	1 0	274	..	28·10	137	110
D Litlington	Eastbourne W.W.	8	1 0	19	..	27·58	124	110
D Willingdon Sewage Farm	R. W. Fovargue, Esq.	5	1 0	24	..	30·51	128	109
D Pevensey Pumping Station	R. W. Fovargue, Esq.	5	1 0	12	..	26·69	144	100
D Pevensey Bay Pumping Station	R. W. Fovargue, Esq.	5	1 0	7	..	27·80	142	103
D Bexhill (Egerton Park)	H. J. Sargent, Esq.	8	1 0	12	..	25·83	144	100
D St. Leonards (Gensing Gardens)	Hastings Corporation	8	1 0	178	28·4	29·38	200	118
d St. Leonards (Thorndene)	Miss A. E. Tait	5	1 0	190	..	(29·51)	(186)	(122)
D Hailsham (North Street)	R. Matthews, Esq.	5	1 0	105	..	28·67	156	109
D Hailsham (Magham Down)	E. M. Bear, Esq.	5	1 0	90	..	27·03	146	100
D Hazards Green (Pumping Station)	Bexhill W.W.	5	1 7	74	..	25·58	140	102
D Hastings (Newgate)	S. Little, Esq., C.E.	8	1 0	240	..	26·83	163	108
D Hastings (Clive Vale)	A. E. Moon, Esq.	5	1 0	328	..	28·47	197	119
D Hastings (Halton Reservoir)	S. Little, Esq., C.E.	5	1 0	179	..	29·62	152	115
D Hastings (Fairlight Reservoir)	S. Little, Esq., C.E.	5	1 0	500	..	30·38	152	127
D Hollington (High Beech Gdns.)	R. H. Crockford, Esq.	5	1 0	400	..	29·06	164	114
D Battle (Forewood W.W.)	S. Little, Esq., C.E.	5	1 0	30	..	29·24	157	117
D Cowbeech (Pumping Station)	Bexhill W.W.	5	1 7	100	..	26·66	138	104
D Horeham Road (Coxlow)	Miss P. C. Harrison	5	1 0	260	*32·2*	30·76	160	113
D Horeham Rd. (Hollycroft Cott.)	J. Hamlin, Esq.	5	1 0	300	*35·2*	31·54	164	109
D Horeham Road (Holmwood)	Rev. G. T. Maw	5	1 0	380	..	29·82	151	120
D Heathfield (The White Cottage)	J. F. Leigh Clare, Esq.	5	1 0	500	..	29·29	170	124
6.—ROTHER. 194 sq. mi.								
d Hastings (Fairlight, Machico)	P. G. Lock, Esq. M.A., M.R.C.S.	5	1 0	125	..	29·15	..	..
D Battle (The White Cottage)	Rev. E. J. Morgan	5	1 0	320	..	32·45	166	121
d Brede (Pumping Station)	S. Little, Esq., C.E.	8	1 0	32	..	26·21	..	..
D Battle (Netherfield)	Thos. W. C. Terry, Esq.	5	1 0	420	..	32·47	175	120
d Udimore (The Wick)	Major R. P. Mair	8	1 0	92	*28·7*	27·88	..	..
D Rye (The Point)	W. Gay, Esq.	5	1 0	120	..	29·51	160	122

DIVISION II—SOUTH-EASTERN COUNTIES—(*con.*).

	STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1932. Rainfall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
	SUSSEX—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
	6.—ROTHER—(*con.*).								
D	Brightling Park	T. P. Tew, Esq.	5	1 0	545	..	35·34	179	122
	Robertsbridge (Darvell Hall San.)	Medical Superintendent	5	0 10	100	..	28·44	..	..
D	Peasmarsh (Woodside)	A. W. Rickards, Esq.	5	0 8	100	..	30·93	159	125
D	Rye (Iden)	Admiral Sir Aubrey Smith	5	1 0	150	..	27·71	153	104
d	Heathfield (Barklye)	W. H. Masson, Esq.	5	1 0	500	32·5	34·40	..	..
d	Northiam (Great Dixter)	N. Lloyd, Esq., O.B.E.	8	1 0	209	..	27·34	..	114
D	Ticehurst (Stonegate)	W. J. Wheeler, Esq.	5	1 0	230	..	31·88	204	131
	7.—MEDWAY. 117 sq. mi.								
D	Rotherfield (Horsegrove Fm.)	F. W. Shaw, Esq.	5	1 0	528	..	32·33	167	130
D	Rotherfield (Roslyn)	Rev. H. C. B. Foyster	5	1 2	520	..	35·13	209	145
D	Crowborough (Jarvis Brook)	Crowborough Water Co.	5	1 0	325	..	32·73	159	126
D	Crowborough (Uckfield Lodge)	Mrs. Driberg	8	1 0	796	36·0	33·94	155	122
D	Crowborough (Beacon School)	R. W. Hunt, Esq.	5	1 3	750	..	34·62	179	133
D	Wadhurst (Lower Cousley Wd.)	A. Wilkin, Esq.	5	1 0	416	..	27·55	166	116
d	Forest Row (Wych Cross Place)	D. W. Freshfield, Esq., D.C.L.	5	1 0	600	..	33·12	..	109
D	Forest Row (Hindleap Lodge)	Mr. A. Adam	5	1 6	620	..	34·03	158	126
D	Hartfield (Marsh Green Brook)	B. de F. Osmaston, Esq.	5	1 6	130	..	33·86	160	124
	Forest Row (Charlwood Farm)	A. Hoare, Esq.	5	2 0	350	..	34·24	..	..
D	Forest Row (Wirksworth)	L. Gibbs, Esq.	5	1 0	217	..	31·57	168	119
D	Frant (Hazelhurst)	W. S. Darlington, Esq.	5	1 0	450	..	30·51	169	131
D	Frant (Henley House)	Rev. E. Malden	5	1 6	440	*32·3*	28·85	174	124
d	Frant (Eridge Castle)	Mr. A. Wilson	5	1 0	400	..	30·06	..	132
	Frant (Highfield)	H. S. Eeles, Esq.	5	1 0	413	..	27·16	..	..
D	Groombridge (Crossways)	Capt. D. P. A. Gray	5	1 0	260	..	28·38	172	108
D	E. Grinstead (Brockhurst Obsy)	W. S. Franks, Esq.	8	1 0	435	*32·9*	31·09	206	128
D	Wadhurst (Downgate)	Rev. E. P. Gatty	5	1 6	300	..	30·57	163	117
	8.—THAMES—Mole. 27 sq. mi.								
D	Turners Hill (The Old Manse)	Miss R. M. Ravenshaw	8	1 6	500	..	30·65	200	128
D	Worth (Worth Lodge)	C. W. Nix, Esq.	5	1 0	340	*31·9*	29·46	195	127
d	Crawley (Orleton Lodge)†	B. Longley, Esq.	8	1 0	260	..	28·17	..	117
	9.—THAMES—Wey. 10 sq. mi.								
D	Milland House	S. Thompson, Esq.	5	1 0	425	..	34·05	167	125
D	Liphook (Ripsley)	W. D. Bosanquet, Esq.	5	1 0	400	..	36·50	173	133
	HAMPSHIRE. (Area 1,622 sq. mi.)								
	1.—ISLE OF WIGHT. 150 sq. mi.								
D	St. Catherine's Point	The Meteorological Office	8	1 8	150	..	29·92	138	118
D	Blackgang (H.M. Coastguard)	Mr. H. W. Hawkes	5	1 0	420	..	29·40	139	108
D	Ventnor (Royal National Hos.)	Miss N. G. Abercrombie	5	1 0	59	28·9	32·23	170	107
D	Ventnor (Fern Bank)	A. W. Jolliffe, Esq.	5	1 5	250	..	33·12	175	109
D	Godshill (Daffodil Valley Farm)	S. F. Lunniss, Esq.	5	1 0	195	..	36·27	155	114
D	Shanklin (Pomona Road)	The Town Surveyor	8	1 0	199	..	36·80	166	108
D	Brighstone Rectory	Rev. E. W. Silver	5	1 0	140	..	32·86	132	118
d	Brighstone (Pitt Place)	A. A. H. Wykeham, Esq.	5	1 7	200	..	27·92	..	112
D	Sandown (Sandham Gds.)	The Surveyor	8	1 0	13	..	32·60	175	110
D	The Needles (Golf Club)	Mrs. Newnham	5	1 0	300	..	31·06	169	120
D	Totland Bay (Aston House)	J. Dover, Esq.	8	1 0	140	28·5	29·06	154	113
D	Freshwater (Pumping Station)	J. Dover, Esq.	8	1 0	10	..	30·26	166	120
D	Newport (The Mall)	J. F. Jackson, Esq.	5	1 0	48	..	37·03	164	115
D	Ryde (Perivale)	Major E. C. Murray	5	1 3	193	..	35·80	165	111
D	Ryde (West Street)	W. H. Salter, Esq.	5	1 0	170	..	33·77	172	116
D	Ryde (Buckland Grange)	Lt.-Col. Sir Hugh Daly	5	1 0	90	..	32·88	200	116
D	Ryde (Esplanade Gardens)	B. F. Holness, Esq., C.E.	5	1 9	13	..	29·78	152	111
D	Wootton (Fernhill)	Major C. G. Brodie, M.C.	8	1 0	118	..	35·55	170	118
D	Wootton (Oak Lawn)	R. W. Hutton, Esq.	5	0 9	80	..	36·02	165	116
D	Cowes W.W. (Broadfields)	J. W. Webster, Esq., C.E.	5	1 0	161	..	31·99	149	114
D	Osborne	The House Governor	5	1 0	177	..	35·43	176	126
D	East Cowes (Spring Hill)	Sir George Shedden	5	1 0	123	..	30·21	156	111

† Station previously at Crawley (The Beeches).

DIVISION II—SOUTH-EASTERN COUNTIES—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Rain-gauge: Aver-age Rain-fall.	1932. Rain-fall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
HAMPSHIRE—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
2.—STOUR. 32 sq. mi.								
D Bournemouth (W. Overcliff Drive)	Arthur Scratton, Esq.	5	2 7	96	..	28·24	161	128
D Bournemouth (East Cliff)	Miss M. Penrose, B.Sc.	8	1 0	120	..	27·59	166	120
D Bournemouth (Vale View)	C. Dales, Esq.	5	1 0	145	31·5	30·76	167	124
D Bournemouth (East Avenue)	J. E. Hewitt, Esq.	5	1 0	142	..	29·76	178	124
D Bournemouth (Talbot Woods)	H. Constantine, Esq.	5	1 0	110	..	29·78	172	126
d Christchurch (Air Compressing Sta.)	Borough Surveyor	5	0 10	6	..	27·78	..	121
D Christchurch (Heron Court)	The Earl of Malmesbury	8	1 3	19	..	31·57	160	130
D Ringwood (Athol Lodge)	S. O. Ferry, Esq.	5	1 0	60	..	28·42	194	120
3.—EAST AVON & C. 114 sq. mi.								
D Christchurch (Harrow Lodge)	R. C. Bacon, Esq.	8	1 0	135	..	32·38	185	127
D Ringwood (Bisterne)	Major J. D. Mills	8	1 2	45	..	31·11	171	126
D Ringwood (Ashley)	Miss M. E. Williams	5	1 0	100	..	33·50	202	137
D Ringwood (Crow Hill)	Mrs. H. F. Rawstorne	5	1 0	250	..	30·67	176	124
d Ringwood (Grey Friars)	R. W. Christy, Esq.	5	1 0	50	..	27·87	..	112
D Ringwood (Linwood)	Dr. F. H. Haines	5	0 9	138	..	32·97	226	141
D Fordingbridge (Cuckoo Hill)	Heywood Sumner, Esq.	5	1 0	150	..	33·49	184	132
D Fordingbridge (Dockens)	E. W. Poore, Esq.	8	1 0	140	..	31·65	170	126
D Fordingbridge (Oaklands)	S. B. Rake, Esq.	8	1 0	135	31·7	32·40	173	124
D Breamore House Gardens	Mr. J. Cole	5	1 0	120	..	31·43	148	117
4.—TEST & SOLENT. 551 sq. mi.								
D Milford-on-Sea (Salt Grass)	A. C. G. Heygate, Esq.	5	1 0	6	..	28·24	158	122
D Milford-on-Sea (Rollrights)	Dr. A. Wood	5	1 0	50	..	26·42	150	120
D Lymington (The Salterns)	P. A. Ouvry, Esq.	5	1 0	4	..	26·91	167	112
D Lymington (Woodmancote)	Major G. M. Harding	5	1 0	70	..	29·25	165	114
D New Milton (Manor Rd.)	A. J. Sturmey, Esq.	5	1 2	140	..	31·23	159	129
D Sway (Gordleton)	W. F. Wright, Esq.	5	1 6	102	..	30·67	165	124
d Boldre (Vicars Hill Lodge)	H. H. Wyatt, Esq.	5	2 0	95	..	32·95	..	125
D Sway (Sway Wood)	J. Dixon, Esq.	5	1 0	140	..	29·72	162	122
D Boldre (Battramsley Close)	Dr. H. A. Des Voeux	5	1 1	119	..	32·66	155	123
d Exbury	L. N. de Rothschild, Esq.	5	1 0	85	..	29·92	..	..
D Brockenhurst (Weirs End)	Col. C. Mansel-Jones, V.C.	5	1 0	45	..	31·73	156	125
D Calshot (Seaplane Station) (+A)	The Meteorological Office	8	1 0	8	25·5	30·03	163	123
D Beaulieu (Moonhills Gate)	Lt.-Comdr. A. Betts-Brown	5	1 0	130	..	33·71	222	138
D Burley (Sandys)	G. Mason, Esq.	5	1 0	150	..	31·04	174	130
D Hythe (Buttsash Lane)	G. H. Baker, Esq.	5	1 0	130	..	32·45	170	124
D Fawley (Cadland Park)	The Head Gardener	8	3 0	52	..	34·13	166	130
d Lyndhurst (Deerhurst)	Ralph Paget, Esq.	5	1 0	250	..	30·91	..	116
D Hythe (Dibden House)	Lt.-Col. H. W. Kettlewell	5	1 0	85	..	34·27	170	134
D Cadnam (Canterton Manor)	Miss Jeffreys	5	1 0	125	..	32·71	171	129
Bartley (The Nurseries)	G. H. Dalrymple, Esq.	5	1 2	100	..	33·79	171	125
D Totton (Shorne Hill)	Mrs Rennie	5	1 0	130	..	34·45	180	133
D Southampton (East Park)	Director Ordnance Survey	8	1 0	64	30·9	32·87	177	134
M Southampton Common Res.	J. Hawksley, Esq.	5	1 0	193	..	31·63	..	..
D Romsey (Embley Gardens)	J. J. Crosfield, Esq.	5	1 0	130	..	30·48	168	119
D Romsey (Harefield)	Lt.-Col. W. J. Langford	5	1 0	120	..	30·15	151	121
D Melchet Court	Mr. R. Currie	5	3 0	207	..	30·28	159	117
d Romsey (Timsbury Manor)	A. R. Wilson-Wood, Esq.	5	0 10	75	..	29·97	..	..
D Romsey (Timsbury P.S.)	J. Hawksley, Esq.	8	1 8	96	..	31·21	177	121
Upper Somborne	Charles Alleway, Esq.	8	1 0	250	..	31·80	..	..
D Stockbridge (Houghton Lodge)	Mr. G. Morris	5	1 0	112	..	32·10	141	117
D Micheldever (School House)	W. Geo. Gould, Esq.	5	1 0	280	..	31·28	182	120
D Wonston (Upton House)	H. J. Gardiner, Esq.	5	1 0	229	..	31·59	181	126
d Abbots Ann (The Old Manor)	Miss E. E. de Paravicini	5	0 9	225	..	30·12	(172)	(131)
D Andover (Sewage Works)	W. C. Jerome, Esq.	8	1 0	182	..	30·26	149	120
D Andover (Hatherden)	E. E. Leader, Esq.	5	1 0	350	..	30·03	172	129
D St. Mary Bourne (Bournside)	Prof. C. V. Boys, F.R.S.	5	1 0	300	..	30·73	180	113
d St. Mary Bourne (Spring Hill)	Mrs. H. A. Boys	5	1 4	300	..	32·07	..	122

DIVISION II—SOUTH-EASTERN COUNTIES—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1932. Rainfall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
HAMPSHIRE—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
4.—TEST & SOLENT—(*con.*).								
D Worting (Manydown Park)...(R)..	Col. A. S. Bates, D.S.O.....	8	4 0	415	..	33·03	170	129
Hurstbourne Tarrant (Rookery)...	R. E. C. Burder, Esq.....	5	1 0	·331	..	34·62	..	..
D Whitchurch (Dunley Manor).....	Sir Alfred Herbert.....	5	1 0	500	..	32·65	176	137
D Linkenholt Manor.....	R. Dudley, Esq.....	5	4 0	700	..	32·47	157	134
5.—ITCHEN & SPITHEAD. 422 sq. mi.								
D Alverstoke (Monckton House).....	Major J. Blake.....	5	1 3	15	..	29·28	164	112
D Alverstoke (Glencoe).....	J. G. Thomas, Esq.....	5	1 3	20	..	28·94	168	114
D Gosport.....	Borough Surveyor.....	8	1 0	30	..	29·09	148	109
D Portsmouth (Victoria Park).....	Dr. A. Mearns Fraser.....	5	1 0	15	27·7	27·15	154	108
d Hayling Island (Richmond Ho.)...	E. S. McEuen, Esq.....	5	1 2	16	..	25·02	..	107
D §Portsmouth (Eastney).....	The City Engineer	8	1 0	20	..	25·17	144	103
D South Hayling (C. of E. School)...	H. J. Earney, Esq.....	5	1 6	10	..	24·37	161	105
D Lee-on-Solent (Edinburgh Ho. Sch.)	Trevor J. Tatham, Esq.....	5	1 0	15	..	27·31	149	114
d Hook-cum-Warsash.....	E. M. Biggs, Esq.....	5	1 0	50	..	30·57	..	107
d Portchester (Noel Cottage).....	Miss R. M. Frost.....	5	1 0	10	..	(28·98)	(148)	(110)
D Farlington (Pump. Stn.) *new g*....	D. Halton Thomson, Esq., C.E.	5	1 0	78	..	29·28	167	110
D Farlington (Filter Works) *new g*...	D. Halton Thomson, Esq., C.E.	5	1 0	157	..	28·32	158	107
D Havant (Portsmouth W.W.).....	D. Halton Thomson, Esq., C.E.	5	1 0	25	*26·7*	28·16	152	111
D Havant (Warblington).....	F. D. Crossley, Esq.....	8	1 0	22	..	27·52	156	112
d Havant (Wade Court).....	W. E. Sotheby, Esq.	8	1 0	17	..	28·37	..	110
d Fareham (Fareham House).....	W. S. Stevenson, Esq., M.D..	5	1 6	30	..	32·86	..	125
D Southwick (Pinsley Lodge)	D. Halton Thomson, Esq., C.E.	5	1 0	150	..	31·33	166	123
D Fareham (Roche Court).....	Admiral Sir W. De Salis....	5	1 0	103	..	34·00	176	130
D Itchen Sewage Works.....	S. G. Stanton, Esq., C.E....	5	1 0	6	..	30·72	160	118
D Cowplain (Forest View).....	H. C. Pearson, Esq.....	5	5 0	222	..	29·74	171	122
Idsworth (Water Tower)	D. Halton Thomson, Esq., C.E.	5	1 0	202	..	32·38	..	..
Southwick (Upper Beckford Fm.)	D. Halton Thomson, Esq., C.E.	5	1 0	112	..	32·59	..	..
d Wickham (The Lower House).....	M.-Gn. Sir C. H. Powell, K.C.B.	5	1 4	100	..	31·96	..	117
D Wickham (Park Place).....(R)..	Major A. F. Clifford.....	8	1 0	150	..	32·76	166	122
d Southampton (Portswood).....	S. G. Stanton, Esq., C.E....	5	1 9	10	..	30·25	..	114
D Botley (Botley Hill).....	Lady Jenkyns.....	5	1 6	36	..	35·51	173	131
Botley (Uplands Farm).....	Wilmot H. Yates, Esq.	5	1 0	60	..	36·40	176	135
D Curdridge (Kitnocks House).....	Major C. F. Randolph.....	5	1 0	185	..	35·16	205	128
Catherington Reservoir	D. Halton Thomson, Esq., C.E.	5	1 0	428	..	35·67	..	..
D Swanmore (Holywell House).....	Mrs. M. Portal.....	5	3 0	175	..	35·80	178	144
D Hambledon (Whitedale).....	D. Halton Thomson, Esq., C.E.	5	1 0	223	..	36·04	177	126
D Soberton (Mislingford).....	E. T. Hildred, Esq., C.E....	5	1 0	136	..	33·04	168	117
D West End (Oaklands).....	Capt. P. C. Pearson, R.N...	5	1 0	45	..	33·47	167	128
D Swanmore Vicarage	Rev. C. H. Wilson	5	1 0	320	..	31·86	153	120
D Bishops Waltham (Park Ho.)....	A. F. Hardy, Esq.....	5	1 3	170	..	32·98	199	130
D Swanmore House.....	W. H. Myers, Esq.....	5	0 10	395	..	37·64	184	135
D Droxford (Uplands).....	Miss A. M. Bridge.....	5	1 0	279	..	37·65	189	142
D Droxford (Fairfield House).....	H. Hamilton Bridge, Esq...	5	0 9	254	..	36·64	173	138
D Petersfield (Ditcham Park)	C. J. P. Cave, Esq., J.P.....	8	1 0	555	..	38·92	191	137
D Otterbourne W.W.	J. Hawksley, Esq.....	5	1 0	113	..	33·08	169	123
D Twyford (Pumping Station)	J. Hawksley, Esq.....	8	1 9	139	..	34·55	184	121
D Twyford (Mallards Close).....	G. R. Marsh, Esq.....	5	1 0	153	..	33·49	178	120
East Meon (Burnside).....	H. A. Gilmour, Esq.....	5	1 5	..	..	36·10	..	..
D Winchester (Shawford).....	J. A. Rooke, Esq.....	5	1 0	250	..	34·25	159	117
D Hursley (Merdon Manor).....	Capt. G. J. R. Cooper.....	5	1 0	360	..	34·21	159	119
D Hursley Park.....	Sir G. A. Cooper, Bart.....	8	1 0	240	..	35·04	172	129
D Compton (Kennington).....	J. Durst, Esq.....	5	1 1	250	..	32·80	166	118
D West Meon (Westwood).....	Major G. E. Galbraith.....	5	1 5	470	..	37·31	187	135
Petersfield (Broadhanger)	The Head Gardener	5	1 0	730	..	40·36	..	..
D Winchester (St. Cross).....	G. M. Mathews, Esq.....	5	1 0	135	..	34·62	165	122
D Winchester (High Street)	Kenneth E. N. Williams, Esq.	5	1 0	200	..	35·54	185	124
d West Tisted Manor.....	Capt. Nelson Zambra, M.C..	5	1 3	650	..	35·65	..	123
D East Tisted (Rotherfield Park)....	Capt. J. B. Scott.....	5	1 0	550	..	38·66	197	144

§ Turf wall erected round gauge, December 1931.

DIVISION II—SOUTH-EASTERN COUNTIES—(*con.*).

	STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1932. Rainfall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
	HAMPSHIRE—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
	5.—ITCHEN & SPITHEAD—(*con.*).								
D	Ovington Rectory	Rev. H. L. Atkins	5	1 0	221	33·2	37·35	160	124
D	Itchen Abbas (Chilland)	W. J. Arnold, Esq.	5	1 3	200	*32·7*	32·52	189	129
D	Itchen Abbas (Itchen Lodge)	Lt.-Col. R. V. Savile	8	0 9	200	..	31·56	175	126
D	Old Alresford (The Gables)	A. E. Broad, Esq.	5	1 0	300	..	34·44	163	141
D	Worthy Down (Aerodrome) (+A)	Meteorological Office	8	1 0	275	29·5	32·03	169	116
	6.—ARUN. 32 sq. mi.								
D	Petersfield (Weston)	Capt. P. W. Seward	5	1 0	330	..	40·62	158	134
	Petersfield (Monks Barn)	F. G. Padwick, Esq.	5	1 3	300	..	37·83	..	..
D	Petersfield (Tilmore)	L. J. Tatham, Esq.	5	1 0	250	..	34·53	174	120
D	Petersfield (Stoner Hill) (+A)	C. J. P. Cave, Esq., J.P.	5	1 0	748	..	39·39	179	133
d	Liss (Easton)	Miss E. Barton	5	1 0	500	..	35·88	..	124
D	Liss (Heathmount)	R. A. Bosanquet, Esq.	5	1 3	490	..	35·35	171	120
D	Liss (Kippences)	The late Rev. W. A. H Thorold	5	0 9	250	..	35·61	167	126
D	Liss (Hawkley Hurst)	T. Clive Davies, Esq.	5	0 11	422	..	40·74	186	144
D	Greatham (Manor House)	Miss I. L. Coryton	5	1 0	260	..	33·95	158	125
D	Greatham (Le Court)	Sir Heath Harrison, Bart.	5	0 9	350	..	37·27	166	131
	7.—THAMES—Wey. 92 sq. mi.								
D	Newton Valence Vicarage	Rev. A. C. Maclachlan	5	1 0	586	..	34·25	193	128
D	Newton Valence (Shotters)	Major W. H. Chawner	5	1 2	600	..	34·75	179	123
D	Newton Valence Place (R)	Rear-Adm. E. Jervoise, C.B.E.	8	1 5	615	..	34·06	194	134
D	Selborne (The Wakes)	Mrs. Bibby	5	1 0	400	..	37·06	191	135
D	Grayshott	Mrs. Lyndon	5	1 0	661	33·2	34·77	175	127
D	Alice Holt Forest	Forestry Commission	8	1 0	264	..	32·40	174	129
	8.—THAMES—London. 164 sq. mi.								
d	Swainshill	S. G. Weller, Esq.	5	3 0	..	..	31·16	..	..
D	Long Sutton (Agric. Coll.)	The Warden	5	1 0	479	..	29·03	169	119
d	South Warnborough (Vine Cot.)	Mrs. Gawne	5	1 0	416	..	28·29	..	109
D	Upton Grey (Hoddington Ho.)	Lord Basing	5	1 0	378	..	27·92	146	101
D	Basingstoke (Upton Grey Ho.)	G. W. Hayes, Esq.	5	1 0	400	..	27·76	162	116
D	Aldershot Waterworks	Mid-S. Dist. Utility Co.	5	1 0	251	..	26·34	154	115
D	Aldershot Reservoirs	Mid.S. Dist. Utility Co.	5	0 7	393	..	26·68	155	118
d	Odiham (Mill House)	W. M. Dean, Esq.	5	1 0	241	..	26·25	..	..
D	Odiham (Sewage Works)	Hartley Wintney, R.D.C.	5	1 0	270	..	26·25	161	104
D	Greywell (Pumping Station)	S. G. Weller, Esq.	5	1 0	258	..	26·24	196	117
D	Hook (Nately Hatch)	R. C. Mallock, Esq.	5	1 0	328	..	27·25	171	114
D	Sherborne St. John	Rear-Admiral A. S. Lafoné	5	1 0	260	29·0	27·80	176	125
d	Rotherwick (Tylney Hall)	Major Sir H. R. Cayzer, Bt.	5	1 0	250	..	25·42	..	103
D	Hartley Wintney (Council Offices)	Sanitary Inspector, R.D.C.	5	1 0	202	..	25·44	165	121
D	Hartley Wintney (Warren Heath)	Sanitary Inspector, R.D.C.	5	1 0	220	..	27·16	156	119
D	South Farnborough (R.A.E.) (+A)	The Meteorological Office	8	1 0	237	26·1	25·03	169	111
D	Bramley (Street Farm House)	F. Walkinshaw, Esq.	8	1 0	227	*28·8*	24·35	179	122
D	Stratfield Turgis (Byland's Cottage)	Miss D. Page-Roberts	5	0 8	218	..	24·19	193	120
D	Heckfield (Park Corner)	Miss V. Martineau	5	1 2	257	24·3	24·55	196	124
	9.—THAMES—Kennet. 65 sq. mi.								
D	Wolverton (Ewhurst Park)	Mr. H. J. Beckingham	5	1 6	410	..	29·58	185	130
D	Highclere (Castle Gardens)	Mr. A. W. Blake	5	1 6	500	..	30·68	168	127
D	Highclere (Black Ford)	W. A. Turner, Esq.	5	1 0	439	..	31·92	169	123
D	Highclere (Adbury Pk. Gdns.)	The Head Gardener	5	1 0	350	..	30·24	170	121
	BERKSHIRE. (Area, 722 sq. mi.)								
	1.—TEST. 2 sq. mi.								
	2.—THAMES—Bourne. 15 sq. mi.								
	Sunninghill (Frognal)	Mr. D. Chaplin	5	1 0	200	..	26·60	..	..
D	Ascot (Heatherwood Hospital)	The Medical Superintendent	5	1 0	320	..	23·78	175	117
D	Sunninghill (Blacknest P.S.)	E. J. Toy, Esq.	8	1 0	130	..	23·89	174	118
D	Sunninghill (Little Paddocks)	Col. J. N. Horlick, M.C.	5	1 0	200	..	24·79	185	115

DIVISION II—SOUTH-EASTERN COUNTIES—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Aver-age Rain-fall.	1932. Rain-fall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
BERKSHIRE—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
3.—THAMES—Loddon & c. 162 sq. mi.								
D Wellington College	A. L. Payne, Esq.	5	1 0	290	26·4	26·52	165	117
d Broadmoor Asylum	The Medical Superintendent	5	1 0	300	..	31·68?	..	127
D Wokingham (Bucks Copse)	C. W. Marks, Esq.	5	1 0	174	..	23·34	148	111
d Wokingham (Appin Lodge)	Rev. W. N. Blakeney	8	0 10	200	..	23·65	..	..
D Wokingham (Bear Wood Gdns.)	M. Goddard, Esq.	8	1 0	200	..	25·14	161	127
D Wokingham (Sindlesham Ho.)	Mr. W. Balcombe	5	4 6	200	..	23·93	165	118
D Winkfield (Ryemead)	Mrs. Aubrey Elliott	5	0 10	220	..	24·93	176	121
D Winkfield (Maidens Green)	R. Crosbie-Hill, Esq.	5	1 0	210	..	24·68	178	120
D Warfield (Jealott's Hill Farm)	Imperial Chemical Industries, Ltd.	5	1 0	220	..	23·90	173	123
D Sonning on Thames (The Deanery)	Capt. N. J. Bengough	5	0 9	120	..	23·10	185	120
D Windsor (Royal Gardens)	Mr. C. H. Cook	5	1 0	88	24·9	22·55	187	114
d Twyford (Hare Hatch)	Messrs. J. Waterer, Sons & Crisp, Ltd.	5	1 0	180	..	23·57	..	119
D Maidenhead (The New Hall)	Mrs. Torkington	5	0 11	130	..	26·54	152	133
Pinkney's Green	R. P. Lord, Esq.	5	0 10	240	..	25·71	..	..
D Remenham Hill (Wedmore)	Lt.-Col. C. D. Burnell, D.S.O.	5	1 0	300	..	26·31	170	131
D Hambleden Lock	Mr. T. E. Wise	5	1 6	107	..	25·41	185	129
D Hurley House	Rev. W. Farrer	5	1 0	105	..	23·63	163	117
4.—THAMES—Kennet & c. 224 sq. mi.								
D Inkpen (Manor Farm)	A. A. Lawrence, Esq.	5	1 5	450	..	33·01	186	147
D Inkpen (New Mill)†	G. C. Goodhart, Esq.	5	1 0	475	..	33·00	181	139
d Hampstead Marshall (Redhill)	Mrs. Lewis	5	1 0	400	..	30·47	..	126
D Mortimer (Wokefield Park)	Dr. A. Palmer	5	1 0	220	..	25·36	166	118
D Mortimer (Oakfield)	Rev. G. G. Skipwith	6	1 0	200	..	27·83	200	130
D Brimpton (Stonehouse)	F. Hadden, Esq.	5	0 7	350	..	28·43	156	118
Kintbury (Wallingtons)	A. S. Gladstone, Esq.	5	1 0	360	..	28·71	..	..
D§Newbury (Greenham Common)	H. L. Bowman, Esq., D.Sc.	5	1 0	327	29·0	29·96	183	125
D Newbury (Wash Hill)	C. F. B. Marshall, Esq.	5	1 0	385	..	30·81	179	118
D Newbury (Wash Hill Ho.)	E. P. Plenty, Esq.	5	1 0	390	..	31·98	166	126
D Newbury (Tydeham)	J. H. Spackman, Esq.	5	1 0	400	..	30·95	177	121
D Shinfield (University Col. Farm)	Dr. J. A. Crowther	5	1 0	200	..	25·72	159	112
D Bucklebury Place	Mr. J. E. Henshall	5	1 0	409	..	26·16	157	122
D Reading W.W. (Bath Road)	L. C. Walker, Esq., C.E.	5	1 0	218	..	24·47	180	124
D Reading (Tilehurst)	Miss M. W. Latham	5	1 4	200	..	25·49	172	125
D Reading (Forbury Gardens)	A. S. Parsons, Esq., C.E.	5	1 5	143	24·9	24·20	161	116
D Reading (University College)	Dr. J. A. Crowther	5	1 0	152	..	24·99	176	122
d Reading (Caversham Lock)	The Thames Conservancy	5	1 6	123	..	22·65	..	111
d Chieveley (Priors Court)	G. E. H. Palmer, Esq.	5	1 0	403	..	24·65	..	118
d Peasemore House	H. Brown, Esq.	5	1 0	490	..	24·89	..	..
5.—THAMES—Ock & c. 319 sq. mi.								
D Reading (Englefield)	J. H. Benyon, Esq.	5	1 0	175	27·4	26·05	154	119
D Hermitage (Oare)	F. Bateson, Esq.	5	1 0	450	..	26·97	183	120
D Bradfield (Buckhold Hill Ho.)	N. Vaslet, Esq.	5	1 0	300	..	29·83	153	121
D Yattendon Court Apiary	N. Vaslet, Esq.	5	1 0	350	..	27·40	165	123
D Upton (Manor House)	Miss C. S. Fry	5	1 0	240	..	25·70	180	111
D Wantage (Lockinge Rectory)	Rev. G. C. Keble	5	1 1	360	..	30·19	166	122
d Kingstone Lisle Gardens	Mr. F. Brown	5	0 9	700	..	29·57	..	..
D Uffington (Woolstone Lodge)	Miss A. E. Butler	5	1 0	350	..	31·98	164	120
D Uffington (Sherborne Cott.)	T. E. Inwood, Esq.	5	1 0	287	..	28·22	170	118
Steventon (Milton Hill)	R. H. Betteridge, Esq.	5	1 6	300	..	26·80	..	..
D Wallingford (Winterbrook)	Frank K. Weedon, Esq.	5	1 0	150	..	26·66	173	121
D Wallingford (St. Leonard's R.)	Rev. A. Simmons	5	1 4	142	..	25·43	163	126
D Wallingford Castle	Miss E. Hedges	5	1 3	175	..	25·33	177	127
D Wallingford (Style Acre)	A. L. Morphew, Esq.	5	1 4	220	..	27·93	175	120
D Didcot (Sewage Works)	Wallingford R.D.C.	5	1 1	170	..	24·34	159	115
D Abbots Wittenham Rectory	Rev. W. F. B. Ward	5	1 0	190	..	26·15	168	126
D Long Wittenham (Willington)	H. J. Hewett, Esq.	5	1 0	167	..	29·03	165	123
D Abingdon (Sewage Works)	W. H. Lewis, Esq., C.E.	8	1 0	169	..	26·48	193	119
D Abingdon (The Firs)	Miss G. G. Challenor	5	1 3	200	..	25·56	176	120
D Abingdon (Donnington)	R. W. Langford, Esq.	5	1 0	199	..	27·10	170	125
D Boars Hill (Sherwood)	Rev. G. M. Nuttall-Smith, M.A.	5	1 0	444	..	27·23	171	118
d Oxford (Kennington Nursery)	W. G. Gray, Esq.	5	0 10	300	..	26·85	..	126

§ Gauge somewhat over-sheltered. † Previously called (Willows).

DIVISION III—SOUTH MIDLAND COUNTIES.

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1932. Rainfall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
MIDDLESEX. (Area, 232 sq. mi.)		in.	ft. in.	ft.	in.	in.		
1.—THAMES—Colne & Brent. 185 sq.mi.								
D Weybridge (Shepperton Lock)	Thames Conservancy	5	1 0	41	..	22·65	147	106
D Littleton (Queen Mary Res.)	Met. Water Board	5	1 0	44	..	23·84	158	123
D Hampton Waterworks	Met. Water Board	5	1 0	27	..	22·62	152	117
d Hampton (The Manor House)	J. Hughes, Esq.	5	2 0	43	..	21·88	..	..
D Kempton Works	Met. Water Board	5	1 0	40	..	22·99	143	112
D Hampton (Gloucester Rd.)	N. B. Palmer, Esq.	5	1 0	50	..	23·48	163	125
d Teddington (Holmesdale)	The late E. J. Allcard, Esq.	5	4 2	25	..	22·62	..	112
D Staines Reservoir (West Side)	Met. Water Board	5	1 6	53	..	21·57	137	103
D Staines Reservoir (East Side)	Met. Water Board	5	1 6	53	..	21·83	138	103
D Twickenham (Sewage Works)	The Borough Surveyor	5	1 0	37	..	21·19	150	108
D Sipson (Hollycroft)	Mr. W. J. Mitchell	5	1 0	94	..	24·18	164	127
D Kew Bridge (Waterworks)	Met. Water Board	5	1 0	36	..	21·94	159	117
D Chiswick (The Mall)	Miss Laura E. Felkin	5	0 10	6	..	22·25	146	119
d Chiswick (Turnham Green)	The Borough Engineer	8	1 0	27	..	22·25	..	..
D Hanwell	Middlesex County Council	5	1 9	36	..	20·91	155	112
D Ealing (St. Paul's Vicarage)	Rev. A. H. Cooper	5	1 6	100	..	24·40	168	138
D Ealing (Longfield Avenue)	W. R. Hicks, Esq., C.E.	5	0 9	114	..	19·86	143	111
D Ealing (St. Stephen's Road)	H. W. Peal, Esq.	5	1 0	156	..	21·22	154	110
D Hayes Sewage Works	Middlesex County Council	5	2 3	98	..	22·04	139	107
D Ealing (Hanger Hill Reservoir)	Met. Water Board	5	1 0	206	..	22·39	161	112
D Greenford	Middlesex County Council	5	1 3	61	..	23·75	182	117
D Perivale (Northern Sewage Farm)	W. R. Hicks, Esq., C.E.	8	1 0	56	..	23·02	172	121
D Alperton (Sewage Works)	C. R. W. Chapman, Esq.,C.E.	8	1 2	80	..	24·92	179	125
D Willesden Reservoir	Met. Water Board	5	1 0	167	..	24·74	161	127
d Willesden (Stonebridge Fm.) (R)	F. Wilkinson, Esq., C.E.	10	5 9	100	..	22·65	..	109
D Ickenham Sewage Works	Middlesex County Council	5	1 8	109	..	25·22	172	118
D Sudbury (Station Approach)	L. H. Powers, Esq.	8	1 0	153	..	22·29	169	111
D Golders Green (Dunstan Road)	Capt. A. E. Mackenzie	5	1 0	240	..	22·41	161	118
D Highgate (North Hill Depot)	W. H. Adams, Esq., C.E.	5	1 0	303	..	23·20	182	135
D Harrow (Oakhurst)	Hugh Gardner, Esq.	5	1 0	295	..	24·24	181	113
d Harrow (Bessborough Rd. Depot)	J. P. Bennetts, Esq., C.E.	5	1 0	215	..	24·66	..	128
D Hendon (Sewage Works)	A. O. Knight, Esq., C.E.	6	1 6	153	..	21·89	160	113
D Finchley (Church End)	Sr. Marie Hilda	5	0 8	300	..	20·59	156	113
D Wealdstone (Sewage Works)	The Surveyor	5	1 0	154	..	21·61	155	108
d Wealdstone (Kodak Works)	Messrs. Kodak, Ltd.	5	1 0	193	..	22·14	(155)	(107)
d Harrow (Wealdstone House)	Miss H. O. E. Cobb	5	1 0	236	..	23·68	(169)	(123)
Northwood (Tandridge)	Chas. Price, Esq.	5	1 0	..	..	25·86	..	..
d Northwood (Haslemere)	Miss L. McBean	5	1 0	240	..	28·32	..	122
D Edgware M.C.C. Depot	Middlesex County Council	5	0 9	179	..	25·37	158	120
D Mill Hill (Ridgeway House)	Major N. G. Brett-James	5	1 0	375	..	22·96	167	108
D Bushey Heath (Highfield)	W.B.Worthington,Esq.,C.E.	5	1 0	503	..	23·24	175	120
D Elstree (Barnet Lane)	G. V. Maxted, Esq., C.E.	8	1 0	490	..	25·37	159	123
D Potters Bar (Mount Grace)	Mr. E. W. Halsey	5	1 3	375	..	24·13	169	129
2.—THAMES—Lea. 47 sq. mi.								
D Stroud Green (Mount View Rd.)	L. R. Bennett, Esq.	5	1 0	212	..	20·64	171	114
D Stroud Green (Oakfield Road)	E. A. Madge, Esq.	5	1 0	206	..	22·37	158	113
D Crouch End (Barrington Rd.) (+A)	W. H. Adams, Esq., C.E.	8	1 0	118	..	24·11	174	123
D Tottenham (Drayton Road)	Medical Officer of Health	5	1 3	51	23·3	21·97	148	110
D Hornsey (High Street)	Met. Water Board	5	1 2	107	..	21·50	155	111
D Muswell Hill (Wightman Rd.)	W. H. Adams, Esq., C.E.	8	1 0	113	..	23·43	164	121
D Muswell Hill (Sewage Farm) (+A)	W. H. Adams, Esq., C.E.	8	1 0	209	..	23·44	186	123
D Wood Green (Maryland Road)	F. C. Hornsey, Esq.	6	1 0	110	..	21·16	157	116
D Finchley (Victoria Park)	P. T. Harrison, Esq., C.E.	5	1 0	272	..	22·49	171	112
d North Finchley	A. R. Bill, Esq.	5	1 0	290	..	21·48	..	..
D Tottenham (Gas Works)	The Chief Chemist	5	1 0	30	..	18·48	..	..
D Palmers Gr. (Broomfield Pk.) (+A)	R. Phillips, Esq., C.E.	8	1 6	136	..	22·30	144	119
D Winchmore Hill (Elsiedene Road)	V. E. Steers, Esq.	5	1 0	150	..	24·10	178	129
D Ponders End Pumping Station	Met. Water Board	5	1 0	45	..	19·87	149	109
D Enfield (Southbury Road)	Met. Water Board	5	1 0	105	24·7	21·68	164	120

DIVISION III—SOUTH MIDLAND COUNTIES—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1932. Rainfall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
MIDDLESEX—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
2.—THAMES—Lea.—(*con.*)								
D Enfield (Forty Hill)	Dr. E. C. Carter	5	0 11	125	..	20·88	151	108
D Enfield (Roselands, Turkey St.)	E. S. Rashleigh, Esq.	5	1 0	80	..	21·25	169	114
d Waltham Cross (Sewage Works)	J. E. Sharpe, Esq.	5	1 0	61	..	19·97	..	113
HERTFORDSHIRE. (Area, 635 sq. mi.)								
1.—THAMES—Thame. 10 sq. mi.								
D Tring (Akeman St.)	T. Grace, Esq.	8	1 0	450	..	28·07	185	122
D Tring (Pendley Manor)	Mrs. J. G. Williams	5	1 0	420	..	29·89	187	131
D Tring (Brookfield)	Brig.-Gen. C. J. Steavenson, C.B., C.M.G.	6	1 3	430	..	28·02	181	124
2.—THAMES—Colne and Brent. 199 sq. mi.								
D Northwood (Woodhouse Eaves)	Miss S. F. Fox, M.D.	5	1 0	400	..	29·26	201	133
d Bushey Heath (California La.)	C. C. Cooper, Esq.	5	1 0	500	..	24·00	..	..
w Totteridge (West Lodge)	P. D. Walker, Esq.	5	1 4	410	..	23·81	..	..
d Rickmansworth (Croxley Green)	S. Ingleby Oddie, Esq.	5	1 0	262	..	29·71	..	126
D Rickmansworth (Valley Road)	E. L. Hawke, Esq.	5	1 0	182	..	32·31	212	139
D Barnet (Bedford Avenue)	Miss M. Haines	5	1 4	350	..	25·15	191	133
D Barnet (Jesus Hospital)	P. J. Neville, Esq.	5	1 0	335	..	22·38	171	112
D Barnet (Sewage Works)	E. Scott, Esq., C.E.	5	1 0	295	..	23·12	183	116
d Elstree (Aldenham House)	Mr. M. J. Pritchard	10	4 9	305	..	22·29	..	..
D Watford (Colne Valley W.W.)	C. P. Sinclair, Esq.	5	3 0	200	..	25·35	163	116
d Watford (Waterworks)	W. W. Newman, Esq., C.E.	6	1 9	175	..	26·55	..	116
D Watford (Cassiobury Pk. Av.)	E. A. Robins, Esq.	5	1 0	240	..	27·26	156	116
d Watford (Stratford Road)†	Miss L. M. Slinn	5	1 0	340	..	(26·11)	..	..
D Heronsgate (Waterfield Ho.)	A. J. Richardson, Esq.	5	1 0	390	..	29·18	203	122
d Sarratt (Micklefield Green)	J. O. Hickman, Esq.	5	1 0	380	..	30·57	..	131
D Shenley Grange	J. Charrington, Esq.	5	0 9	430	..	25·63	174	129
D Shenley (Kitwells)	T. H. Riches, Esq.	5	1 0	420	..	26·28	169	132
D Sarratt (Goldingtons)	P. Clutterbuck, Esq.	5	1 0	384	..	29·78	158	133
D Chipperfield (Little Callipers)	Miss M. M. Rivington,	5	1 0	407	..	31·76	162	138
D Kings Langley (Fir Tree Cottage)	Edward Toms, Esq.	5	1 0	278	..	29·23	180	126
D Kings Langley (Langley Rise)	F. W. Rowson, Esq.	5	0 9	300	..	28·33	167	126
D Park Street (Bricketwood)	F. J. McLees, Esq.	5	1 0	300	..	22·93	164	117
D Hemel Hempstead (Apsley Mills)	Messrs. J. Dickinson & Co.	24	1 4	268	27·9	29·20	190	129
D Colney Heath (Tyttenhanger P.S.)	J. F. Haseldine, Esq.	5	0 9	241	..	24·43	172	120
D Hemel Hempstead (Northridge)	R. C. Micklem, Esq.	5	1 0	460	..	31·32	219	145
D St. Albans (Co. Mental Hosp.)	G. Goodchild, Esq.	5	1 0	295	..	23·00	154	119
D St. Albans (County Museum)	Mrs. Bullen	5	1 0	389	..	23·67	162	127
D St. Albans (Oaklands)	J. Hunter Smith, Esq.	5	1 0	272	..	22·80	165	117
D St. Albans (Gorhambury)	The Head Gardener	5	1 0	423	..	25·54	175	124
D Hatfield (Hatfield P. Stn.)	J. F. Haseldine, Esq.	5	1 0	334	..	22·20	170	120
D Berkhamsted (Rossway)	The Lady Hadden	5	1 1	590	..	32·43	216	137
D Berkhamsted (Anglefield)	E. T. Browne, Esq.	5	1 0	450	29·8	28·82	179	126
D Tring (Cowroast Lock)	*old g.* Grand Union Canal Co.	5	3 6	394	28·4	26·66	156	125
D Tring (Cowroast Lock)	*new g.* Grand Union Canal Co.	5	1 0	390	29·7	28·02	156	131
D Harpenden (Rothamsted) (+A)	Lawes Agricultural Trust.	8	0 9	420	26·7	23·54	173	117
D Harpenden (Rothamsted)	Lawes Agricultural Trust.	5	1 0	420	..	24·18	174	115
D Harpenden (Rothamsted)	Lawes Agricultural Trust.	72+87	0 9	420	..	25·93	166	118
d Little Gaddesden (Ringshall End)	H. C. Bradby, Esq.	5	1 0	700	..	29·38	..	..
3.—THAMES—Lea. 340 sq. mi.								
d Cheshunt (Manor House)	J. E. Sharpe, Esq.	5	1 0	83	..	20·46	..	..
D Northaw School	C. Steventon, Esq.	5	5 0	400	..	20·91	152	106
D Cheshunt Yard	Met. Water Board	5	1 0	100	..	20·66	157	109
D Cheshunt (Cheshunt Park)	J. A. Wanklyn, Esq.	5	0 9	209	..	22·65	170	121
D Cheshunt (Darnicle Hill P. Stn.)	Met. Water Board	5	1 0	250	..	23·90	157	125
D Newgate Street	T. H. Worthington, Esq.	5	1 0	360	..	23·35	183	123
D Hertford (Epping House)	Lady Brodie Henderson	5	0 9	400	..	22·65	130	119
d Essendon Place Gardens	J. B. Healing, Esq.	5	1 0	365	..	23·71	..	113
Little Berkhampstead	A. Noble, Esq.	5	1 0	380	..	23·67	..	..
d Hatfield (Co. Surveyor's Office)	Lt.Col. A. E. Prescott, C.E.	5	1 0	265	..	21·05	..	..
Hoddesdon	H. F. Hayllar, Esq.	5	5 0	120	..	20·24	159	..
D Hoddesdon (Feilde's Weir)	Met. WaterBoard	8	1 7	95	..	20·81	156	109

† Station formerly called (Park Road).

DIVISION III—SOUTH MIDLAND COUNTIES—(*con.*).

	STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1932. Rainfall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
	HERTFORDSHIRE—(*con.*)		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
	3.—THAMES—Lea—(*con.*)								
D	Haileybury College	The Headmaster	8	1 0	270	..	21·99	165	113
D	Hertford (Bayfordbury)	H. W. Clinton Baker, Esq.	8	1 2	250	..	22·77	173	120
D	Stanstead Abbots (Warrax)	E. H. Barlow, Esq.	5	1 2	110	..	21·44	152	104
D	Gilston Park	The Head Gardener	8	1 0	175	..	22·12	175	116
D	Welwyn Garden City (Estate Office)	H. A. Cook, Esq., C.E.	5	1 0	246	..	22·34	170	110
D	Hertford (Sewage Works)	Met. Water Board	5	1 0	123	..	23·00	171	115
D	Ware (Red House)	Met. Water Board	5	1 0	105	..	22·09	163	110
D	Ware Grammar School	The Headmistress	5	1 0	118	..	22·59	155	108
d	Ware (Chadwell Spring)	Met. Water Board	5	1 0	140	..	22·47	..	107
D	Welwyn Garden City (Valley Rd.)	Comdr. W. George Lingham.	5	1 0	300	..	23·35	182	121
D	Welwyn (Harmer Green)	Mrs. E. Weber	5	1 0	403	..	23·88	185	123
d	Kimpton (Stoneheaps)	S. Bendixson, Esq.	5	1 3	400	..	(24·82)	..	..
d	Welwyn (Codicote Lodge)	Mr. G. J. Miller	5	1 0	340	..	23·59	..	..
d	Much Hadham	Miss J. Mott	5	1 0	212	25·1	25·83	..	117
d	Much Hadham (Lordship)	Capt. W. Glynes Bruty	5	0 10	205	..	25·21	..	112
D	Bishop Stortford (Twyford H.)	Laurie Frere, Esq.	5	1 0	181	..	21·83	173	102
D	Watton (Frogmore Hall)	Lt.-Col. J. B. Gilliat, D.S.O.	5	0 9	250	..	21·71	148	117
	Breachwood Green	S. J. Simpson, Esq.	5	2 0	484	..	26·82	..	..
D	Standon	F. H. Wace, Esq.	5	2 0	375	..	22·56	158	108
D	Little Hadham (Hadham Hall)	W. Minet, Esq.	5	0 10	338	..	24·40	152	127
	Hitchin (King's Walden Bury)	Major J. F. Harrison	8	1 2	400	..	26·95	..	..
D	Hitchin (Preston)	R. de. V. Pryor, Esq.	8	1 0	484	..	25·21	153	117
D	Furneaux Pelham (The Brewery)	G. Warren Bindloss, Esq.	5	1 0	300	..	24·73	171	116
D	Royston (Therfield Rectory)	Rev. H. R. Humphreys	5	1 0	512	25·2	24·77	180	124
	4.—OUSE. 86 sq. mi.								
D	Offley (School House)	C. W. Mears, Esq.	5	1 0	526	..	24·41	150	109
D	Graveley Rectory	Rev. R. E. C. Walker	5	0 10	325	..	25·26	172	128
D	Hitchin (Newlands)	F. Ransom, Esq.	5	1 0	271	..	25·23	176	116
D	Hitchin (Chiltern Road)	A. Latchmore, Esq.	5	1 0	297	..	22·93	183	108
D	Hitchin (High Down)	Miss E. Pollard	5	1 1	421	..	24·84	221	110
d	Letchworth (Gernon Road)	A. W. Brunt, Esq.	5	1 0	280	..	22·81	..	113
D	Letchworth (Sollershott)	Miss H. Leather	5	1 0	300	..	22·71	177	115
D	Letchworth (Sollershott West)	Edward Grubb, Esq.	8	0 11	310	..	22·68	180	118
d	Letchworth (Fire Station)	The Surveyor, U.D.C.	5	1 0	290	..	23·00	..	..
d	Barley (Dalnyveed)	W. F. Sermons, Esq.	5	1 0	300	..	23·87	..	115
D	Royston (Earls Hill House)	Col. E. C. M. Phillips, D.S.O.	8	1 3	225	..	23·18	190	121
	BUCKINGHAMSHIRE. (Area, 743 sq. mi.)								
	1.—THAMES—Cherwell. 30 sq. mi.								
	2.—THAMES—Thame. 158 sq. mi.								
D	Parslow's Hillocks	Col. C. S. Prichard	5	1 0	770	..	29·27	191	135
D	Princes Risborough (Research Lab.)	The Director	5	1 0	333	..	26·53	183	123
D	Towersey Vicarage	Rev. H. E. Cooper	5	1 0	250	..	30·96	182	138
D	Little Kimble	Dr. L. T. Burra	5	0 10	370	..	25·98	177	118
d	Weston Turville	G. Eland, Esq.	5	1 0	320	..	27·07	..	115
D	Tring (Bulbourne)	Grand Union Canal Co.	5	1 0	401	..	23·63	173	117
D	Aylesbury (Sewage Works)	W. H. Taylor, Esq.	5	1 0	251	..	27·44	225	124
d	Mentmore Gardens	Mr. T. Lindores	5	1 3	400	..	28·54	..	116
d	Quainton (Quainton Cottage)	L. H. West, Esq., O.B.E.	5	1 0	350	..	28·11	..	115
	3.—THAMES—Wye & c. 129 sq. mi.								
D	Eton (Tangier Island)	F. N. McRae, Esq.	5	0 8	68	..	22·86	170	117
D	Slough (Upton)	R. Bentley, Esq.	5	1 0	78	23·9	22·73	163	117
D	Taplow Court Gardens	G. H. Emmett, Esq.	8	1 0	217	..	26·15	155	125
D	Taplow (Hitcham Grange)	Hon. C. S. Irby	5	1 0	180	..	22·97	165	118
d	Henley-on-Thames (Greenlands)	Lord Hambleden	5	1 0	116	..	23·79	..	..
D	Burnham Vicarage	Rev. P. Nott	5	1 9	100	..	23·53	184	120
D	Bourne End	Major Forbes Holland	5	2 0	91	..	25·45	169	125
D	Bourne End (Hedsor)	J. Wood, Esq.	8	1 0	170	..	27·04	159	139
D	High Wycombe (Flackwell Hth.)	E. Dickson Park, Esq.	5	1 10	365	..	25·19	173	128
D	High Wycombe (Roy. Gram. Sch.)	The Headmaster	9	1 0	545	..	26·01	165	111
D	Penn (Woodside)	Miss E. M. T. Epps	5	1 0	500	..	30·20	227	136
D	Penn (Rayners)	Mr. E. Peett	5	1 10	547	..	28·77	175	128
D	Hampden House	Countess of Buckinghamshire	5	1 0	695	..	30·55	179	134

DIVISION III—SOUTH MIDLAND COUNTIES—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1932. Rainfall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
BUCKINGHAMSHIRE—(*con.*)		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
4.—THAMES—Colne. 133 sq. mi.								
d Wraysbury School	R. Watson, Esq.	5	0 8	59	..	21·10	..	..
D Slough (Ditton Park)	G. B. Harrison, Esq.	5	2 0	70	..	22·66	150	120
D Slough (Langley)	R. H. Major, Esq.	8	0 10	85	23·9	22·46	163	119
d Slough (Seed Trial Ground)	Messrs. Sutton & Sons	5	0 9	100	..	24·25	..	..
D Stoke Poges (Council School)	S. A. Moore, Esq.	5	1 0	210	..	25·35	174	134
D Denham Golf Club	The Secretary	5	0 11	210	..	25·52	157	129
d Gerrards Cross (Bulstrode Gdns.)	Mr. G. Taylor	5	1 6	280	..	25·21	..	123
d Beaconsfield (Hall Barn)	J. Dickson, Esq.	5	0 8	341	..	25·82	..	121
D Chalfont St. Giles (Up Corner Cot.)	Capt. R. E. Field	8	0 8	300	..	27·85	170	137
D Beaconsfield	S. H. Dyer, Esq.	5	0 10	300	..	26·15	174	126
d High Wycombe (Hazlemere Sch.)	A. J. Chapman, Esq.	5	1 0	568	..	27·59	..	..
D Chalfont St. Giles (Roughw'd P'k.)	Thurston Agelasto, Esq.	5	1 0	400	..	27·98	173	123
D Amersham Common (The Plantation)	Mrs. G. H. Fawcett	8	1 0	464	..	28·30	181	127
D Amersham Common (Stanmore)	W. Garton, Esq.	5	1 0	517	..	29·15	186	129
D Gt. Missenden (Pumping Sta.)	Rickmansworth Water Co.	5	0 11	377	..	25·18	159	121
d Chesham (Nashleigh Hill)	Mrs. Hayes	5	1 0	530	..	26·73	(195)	(130)
D Mayortorne Manor	Miss N. E. Laycock	5	0 9	500	..	26·74	163	116
5.—OUSE. 293 sq. mi.								
D Oving House	Mrs. H. Yates Thompson	5	1 0	515	*28·1*	29·57	188	125
D Wing (Burcott)	R. H. Ayres, Esq.	5	1 6	407	..	29·97	170	135
d Swanbourne House School	L. L. C. Evans, Esq.	5	1 0	411	..	29·66	..	130
D Mursley Hall	Lady Beecham	8	1 0	490	..	27·93	173	114
D Buckingham (Market Hill)	A. Pettipher, Esq.	5	1 0	300	..	26·59	195	128
D Wavendon (Endowed School)	T. G. M. Watson, Esq.	5	1 0	300	..	25·22	175	130
D Stony Stratford (Calverton L.)	Lt.-Col. L. C. Hawkins	5	1 0	230	..	25·60	181	124
D Wolverton (St. George's Vic.)	Rev. Canon W. L. Harnett.	5	1 0	270	..	25·36	191	115
D Wolverton (Gables Lodge)	J. Forster, Esq.	5	1 0	264	..	25·37	187	121
d Wolverton (Council School)	The Headmaster	5	5 0	263	..	23·02	..	..
D Newport Pagnell (Lathbury)	F. W. Coates, Esq.	8	1 2	228	..	23·99	177	118
d Turvey (Brayfield House)	Major D. Farrer, J.P.	5	4 0	188	..	25·21	..	119
OXFORDSHIRE. (Area, 756 sq. mi.)								
1.—SEVERN—Upper Avon. 10 sq. mi.								
D Sibford Ferris (Woolman Cottage)	Joshua Lamb, Esq.	5	1 0	570	*27·6*	27·85	180	120
2.—THAMES—Windrush & c. 261 sq. mi.								
D Kelmscott	R. Hobbs, Esq.	6	0 10	150	..	28·80	147	112
D Bampton (C.E. School)	E. W. Fry, Esq.	5	0 10	233	..	27·67	151	114
Broughton Poggs	Mrs. Hardcastle	5	1 0	275	..	28·58	..	..
D Filkins	Hon. Sir Stafford Cripps, K.C.	5	2 7	279	..	26·69	181	112
d Witney (Cokethorpe)	Major H. G. Feilden	5	3 0	230	..	27·80	..	..
d Charlbury (Cornbury Park)	The Head Gardener	5	1 0	420	..	31·03	..	123
D Wootton Rectory	Rev. F. R. Marriott	5	1 0	375	..	26·14	172	122
D Lyneham	R. de M. Pratt, Esq.	5	1 0	351	..	27·57	166	177
D Bruern Abbey (The Gardens)	F. S. Smith, Esq.	5	1 0	340	..	29·85	162	125
D Chadlington (The Manor)	P. Handy, Esq.	5	0 9	400	..	25·69	150	118
D Chadlington (Langston House)	Lt.-Col. F. W. Schofield, CMG.	5	1 0	430	..	30·33	178	135
D Chipping Norton (Heythrop Col.)	The Procurator	8	1 0	600	..	29·83	161	133
D Chipping Norton (Bungalow)	T. H. Pettipher, Esq.	5	1 0	750	..	30·45	188	123
D Chipping Norton (Choice Hill)	E. W. Arkell, Esq.	5	1 0	500	..	27·63	168	118
3.—THAMES—Cherwell. 250 sq. mi.								
D Nuneham Park Gardens	The Head Gardener	8	1 0	280	..	27·79	172	129
D Oxford (Hincksey Pumping Sta.)	City Engineer	8	1 0	187	..	26·50	192	114
D Oxford (Osney Lock)	Thames Conservancy	5	1 6	188	..	26·30	211	123
D Oxford (Magdalen College)	F. J. Parker, Esq.	5	1 0	186	23·8	24·90	189	113
D Oxford (Radcliffe Obs.) (+A)	H. Knox Shaw, Esq.	8	1 8	208	24·8	26·48	183	116
D Headington (Warneford Asy.)	Dr. A. W. Neill	5	1 0	300	..	24·74	161	114
D Headington (Forest Lodge)	Major A. V. Spencer, D.S.O.	5	0 11	333	..	25·91	166	119
D Headington Hill (Thornhill)	E. S. Fry, Esq.	5	1 0	..	..	25·12	178	118

DIVISION III—SOUTH MIDLAND COUNTIES—(*con.*).

	STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Aver-age Rain-fall.	1932. Rain-fall.	1932. Days with ·01 in. or more.	1932. Days with ·04in. or more.
	OXFORDSHIRE—(*con.*)		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
	3.—THAMES—Cherwell—(*con.*)								
D	Elsfield (Home Farm)	Miss M. J. Parsons	5	1 0	355	..	26·02	167	119
D	Tackley (Hill Court)	W. Evetts, Esq., Junr	5	1 0	340	*27·9*	24·81	171	108
D	Middleton Park (*new g.*)	The Earl of Jersey	5	1 6	326	25·8	26·81	166	115
D	Middleton Park (*old g.*)	The Earl of Jersey	5	2 6	325	26·7	27·46	165	120
D	Upper Heyford (+A)	The Meteorological Office	8	1 0	408	..	25·77	183	119
D	Steeple Aston (The Grange)	Arthur E. Bradshaw, Esq.	8	1 0	400	*27·2*	25·53	190	122
D	Deddington (Souldern Court)	P. Withers, Esq	5	1 0	340	..	24·23	186	106
D	West Adderbury (Little Manor)	Lt.-Col. H. E. du C. Norris	5	0 10	330	..	24·53	177	128
D	West Adderbury (Cross Hill)	Lt.-Col. H. E. du C. Norris	5	1 0	338	..	24·26	184	123
D	West Adderbury (St. Amand's)	Miss M. M. Bradford	8	1 2	320	..	24·07	173	134
D	Adderbury (The Rookery)	C. C. Bradford, Esq	8	1 0	323	..	25·86	180	145
d	Banbury (Cotefield)	Capt. C. N. Keyser	5	1 0	300	..	23·85	..	122
D	Broughton Rectory	Rev. B. W. Bradford	5	1 6	370	..	27·27	185	122
D*	Grimsbury (Banbury W.W.)	Banbury Water Co.	5	1 3	316	..	25·89	200	126
D	Wroxton	Hon. Mrs. Fitz Gerald	12	1 6	500	..	27·63	176	111
	4.—THAMES—Thame & c. 210 sq. mi.								
D	Caversham (St. Peter's Hill)	Rev. G. V. Proctor	5	1 0	220	..	25·13	152	116
D	Shiplake	Lt.-Col. C. A. Yool, D.S.O.	5	1 0	156	..	26·84	197	133
d	Goring Heath	Rev. Canon F. T. Wintle	5	1 0	400	..	26·80	..	..
D	Goring	G. C. Turner, Esq.	5	1 0	159	..	26·59	187	127
D	Harpsden (Cray) (+A)	B. E. Dunbar Kilburn, Esq.	5	1 0	230	..	25·27	166	124
D	Henley-on-Thames (Hart St.)	A. Edward Hobbs, Esq.	5	1 6	110	..	23·68	151	119
D	Henley-on-Thames (Greys Lane)	G. F. Smith, Esq.	5	0 9	123	..	25·46	153	129
D	Henley-on-Thames (Greys Gr.)	Mrs. H. Wolferstan	5	1 6	350	..	26·92	185	129
D	Ipsden (Hailey)	Glynne Williams, Esq.	5	1 0	350	..	26·23	202	130
D	Nettlebed (Joyce Grove) No. 1	Mr. F. Morby	5	1 0	590	..	32·56	171	137
D	Swyncombe House	C. W. Christie-Miller, Esq.	5	1 0	515	..	27·96	150	130
D	Culham	F. Mitchell, Esq.	5	0 10	180	..	25·47	167	121
	Culham (Zouch Farm)	P. E. Saunder, Esq.	5	3 0	186	..	25·60	..	..
D	Culham College	E. H. Metcalf, Esq.	5	1 0	213	..	28·13	185	120
D	Clifton Hampden (Manor House)	Lord Aldenham	5	1 0	190	*24·9*	27·60	165	124
D	Watlington (Pyrton Manor)	Major H. Ducat Hamersley	5	1 0	325	*26·7*	26·40	174	133
D	Wheatfield	A. J. Spencer, Esq.	5	0 11	275	..	28·97	154	131
	Toot Baldon (Potland)	D. Clinkard, Esq.	5	1 0	288	..	25·06	156	..
	5.—OUSE. 25 sq. mi.								
	NORTHAMPTONSHIRE. (Area, 1003 sq. mi.)								
	1.—SEVERN—Upper Avon. 60 sq. mi.								
D*	Rugby (Kilsby Vicarage)	Rev. C. Ryder Macnally	5	0 10	450	..	27·86	178	129
D	Winwick Warren	Capt. P. L. Ransom	8	1 5	648	..	30·09	219	138
D	Naseby Reservoir	Grand Union Canal Co.	5	1 6	519	..	29·00	197	124
	2.—THAMES—Cherwell. 77 sq. mi.								
D	Croughton	C. A. St. George Moore, Esq.	5	1 0	430	..	26·25	168	120
d*	King's Sutton (Manor House)	G. Morgan, Esq.	5	1 0	338	..	26·07	..	120
	3.—OUSE. 148 sq. mi.								
D*	Brackley (Waterworks)	W. M. Oldreive, Esq.	5	1 2	471	..	26·81	171	117
d	Hazelborough Woods	Forestry Commission	8	1 0	241	..	22·43	..	122
d	Silverstone (Council School)	J. P. Osborne, Esq.	5	1 0	400	..	(26·13)	..	..
D	Wappenham (Lois Weedon Vic.)	Rev. E. V. Fenn	5	1 2	400	..	27·57	186	132
D	Towcester (Bradden House)	Miss U. Grant-Ives	5	0 10	420	..	28·16	185	124
D	Towcester (Easton Neston)	Sir T. Fermor-Hesketh, Bt.	8	1 0	325	..	23·10	173	111
D	Roade (Council School)	R. W. Janes, Esq.	8	1 0	394	..	27·47	160	139
w	Hargrave Hall	Sir K. Murchison	5	1 0	273	..	22·90	..	..
	4.—NENE. 622 sq. mi.								
D	Salcey Forest	Forestry Commission	8	1 3	370	..	(23·30)	170	112
D*	Blisworth (Crieff House)	A. Westley, Esq.	5	1 0	351	*25·1*	25·69	195	124
D	Blisworth (Grand Junc. Canal)	Grand Union Canal Co.	5	1 6	300	..	25·05	180	123
D*	Little Houghton House	Christopher Smyth, Esq.	5	1 0	270	..	24·60	163	118

* Reporting to Northamptonshire Natural History Society (where the return is received from the N.N.H.S. the asterisk is after the observer's name).

DIVISION III—SOUTH MIDLAND COUNTIES—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1932. Rainfall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
NORTHAMPTONSHIRE—(*con.*)		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
4.—NENE—(*con.*)								
D Northampton (Upton)	J. R. Foster, Esq.	5	1 0	270	..	24·39	152	119
D*Northampton (General Hosp.)	H. St. John Wood, Esq.	5	1 1	259	..	24·03	155	109
D Northampton (Mental Hosp.)	W. R. Budgen, Esq.*	8	1 2	398	..	26·57	191	128
D*Northampton (Stimpson Av.)	F. Tomlinson, Esq., C.E.§	8	1 0	329	..	24·29	155	114
D*Northampton (Mercers Row)	R. H. Primavesi, Esq.	5	12 0	240	..	24·32	186	113
D*Flore	Major C. A. Markham	5	1 0	344	..	26·79	174	134
D*Duston (Southfield Road)	W. P. Walker, Esq.	5	1 0	342	..	27·19	162	121
D Wollaston	G. Harris, Esq.	5	2 0	250	..	22·98	176	119
D Daventry (Tunnel End)	Grand Union Canal Co.	5	1 6	394	..	24·77	185	129
D*Althorp Park	Mr. G. Low	5	1 3	414	..	27·76	191	127
D Sywell Hall	Brig.-Gen. H. E. Stockdale	5	1 0	371	..	26·40	188	129
D*Pitsford (Sedgebrook)	Major C. A. Markham	5	1 0	311	24·5	28·83	157	118
D*Wellingborough (Swanspool)	R. S. Henshaw, Esq., C.E.	5	1 0	169	24·3	25·12	187	118
D Wellingborough (Sewage Works)	R. S. Henshaw, Esq., C.E.	5	1 0	139	..	23·87	164	113
D Wellingboro' (Bushfield W.W.)	R. S. Henshaw, Esq., C.E.	8	0 11	286	..	22·13	178	110
*Watford Court	Lord Henley	8	1 0	430	..	31·52	..	..
D Ravensthorpe	F. Tomlinson, Esq.	5	1 0	370	..	25·90	176	119
D Hardwick P.S.	R. S. Henshaw, Esq., C.E.	5	0 9	318	..	21·19	176	111
D Raunds (Day School)	The Headmaster	5	1 0	200	23·5	22·96	166	110
D Kettering W.W. (Cransley)	Major J. P. Haugh	8	1 0	275	..	24·21	168	115
D*Kettering (Sewage Works)	Major J. P. Haugh	8	1 0	199	..	23·27	193	118
D Kettering W.W. (Thorpe Malsor)	Major J. P. Haugh	5	1 0	351	..	25·76	174	123
D Kettering W.W. (Clover Hill)	Major J. P. Haugh	5	1 0	344	..	23·67	173	120
d Thrapston (Islip)	G. E. Abbott, Esq.	5	1 0	150	..	22·22	..	112
Rothwell (Loddington)	Mr. J. Oliff	5	1 0	400	..	25·20	..	..
D Tichmarsh Rectory	Rev. Canon A. M. Luckock*	5	1 0	170	..	23·46	197	123
D Rothwell (Shotwell Mill W.W.)	The Surveyor, U.D.C.	5	1 6	340	..	22·96	158	119
d Desborough Council School	F. W. Grudgings, Esq.	5	1 0	400	..	28·11	..	..
d Desborough U.D.C. Waterworks	A. Harris, Esq., C.E.	5	0 9	457	..	25·70	..	129
d Barnwell (Lilford Hall)	Lord Lilford	5	1 0	..	..	19·59	..	..
d Oundle (Milton Road)	J. M. Siddons, Esq., C.E.	5	1 6	131	22·3	20·17	..	105
D*Oundle School	The Headmaster	8	1 0	147	..	20·76	174	106
d Peterborough (Woodston)	Central Sugar Co., Ltd.	5	1 0	25	..	22·53	..	..
D Peterborough (Westbourne Ho.)	E. H. Colman, Esq.	5	1 0	35	..	22·36	166	113
D*Peterborough (Abbeyfields)	Major J. Shipley Ellis, J.P.	5	1 0	49	..	23·19	183	118
D*Peterborough (Milton Park)	Mr. E. A. Parker	5	2 0	86	..	24·80	172	121
d Wittering (Whitewater)	E. Betts, Esq.	8	1 0	241	..	23·94	..	..
d Wittering (Bone Mill)	E. Betts, Esq.	8	1 0	..	..	25·01	..	..
D Eye (Northolm)	S. M. Egar, Esq.	5	1 0	17	..	22·21	191	109
D*Eye (Newborough)	R. Williams, Esq.	5	1 0	8	..	22·34	161	102
5.—WELLAND. 96 sq. mi.								
D Market Harboro' (Dingley Hall)	Mr. V. Read*	5	1 6	406	..	28·02	192	133
D Weston-by-Welland	Major N. H. Matthews	5	1 3	254	..	30·89	185	139
d*Rockingham Castle Gardens	Mr. C. Mears	5	1 0	450	..	27·45	..	..
d Gretton School	W. Leeson, Esq.	5	1 6	365	..	26·94	..	116
d Easton-on-the-Hill	W. H. Tillson, Esq.	5	0 7	290	23·5	23·91	..	..
d Market Deeping (Etton)	W. H. A. Court, Esq., C.E.	8	1 0	25	..	21·15	..	103
HUNTINGDONSHIRE. (Area, 366 sq. mi.)								
1.—OUSE. 327 sq. mi.								
D St. Neots (The Square)	Miss L. Sibley	5	0 10	50	..	22·14	209	121
D Brampton School	W. T. Carter, Esq.	5	1 0	40	..	18·80	149	107
D Hemingford Grey	G. F. Wilson, Esq.	5	1 6	20	21·9	19·37	147	112

* Reporting to Northamptonshire Natural History Society (where the return is received from the N.N.H.S. the asterisk is after the observer's name).

§ " Ground " is the roof of a reservoir 18 ft. above the general level.

DIVISION III—SOUTH MIDLAND COUNTIES—(*con.*).

	STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1932. Rainfall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
	HUNTINGDONSHIRE—(*con.*)		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
	1.—OUSE—(*con.*).								
D	St. Ives (Slepe House)	Dr. W. R. Grove	5	1 0	25	22·6	19·10	149	109
D	Catworth (School House)	J. H. Annet, Esq.	5	0 9	210	23·7	20·61	190	107
D	Wistow Rectory	Rev. C. C. Pratt	5	2 0	50	..	23·43	..	..
D	Whittlesea Mere	L. I. Clark, Esq.	8	1 6	10	21·4	21·33	162	125
	2.—NENE. 39 sq. mi.								
	BEDFORDSHIRE. (Area, 467 sq. mi.)								
	1.—THAMES—Colne. 20 sq. mi.								
d	Whipsnade Park	The Zoological Society	5	1 1	712	..	31·81	..	122
D	Luton (Stockwood)	Capt. H. C. Ross-Skinner	5	1 0	539	..	27·61	156	126
	2.—THAMES—Lea. 32 sq. mi.								
D	Luton (Pumping Station)	J. W. Tomlinson, Esq., C.E.	5	1 0	343	*25·9*	27·85	163	115
D	Dunstable (Cement Works)	Works Manager	8	1 0	430	..	26·78	182	117
D	Luton (Wardown Park)	J. W. Tomlinson, Esq., C.E.	5	1 0	381	..	25·66	171	110
D	Luton (The Downs)	G. W. Pryer, Esq.	5	1 0	479	..	25·89	157	119
	3.—OUSE. 408 sq. mi.								
d	Shefford (Stondon Manor)	R. Long, Esq.	5	1 0	241	..	22·68	..	105
d	Hockliffe (Lyndhurst)	C. J. Kilby, Esq.	5	1 0	350	..	28·66	..	124
D	Woburn (Experimental Farm)	Lawes Agricultural Trust	8	1 0	291	23·9	26·51	176	111
D	Woburn (Fruit Farm, Ridgmont)	E. J. Hobbs, Esq.	5	1 0	270	..	28·02	162	116
D	Letchworth (New Sewage Works)	The Surveyor, U.D.C.	5	1 0	195	..	22·04	166	112
D	Stotfold (Three Co. Mental Hos.)	Dr. L. O. Fuller	5	1 0	220	*23·2*	21·31	175	108
M	Meppershall	W. Ransom & Son, Ltd.	5	0 9	235	..	23·78	..	..
D	Aspley Guise	C. A. C. Bowlker, Esq., M.A.	5	1 0	360	..	27·77	160	127
D	Shefford (Clifton Bury)	W. Inskip, Esq.	5	1 0	137	..	21·81	198	111
D	Shefford Council School	Mrs. R. Alldritt	5	1 0	126	..	26·53	195	109
	Shefford (Stanford)	H. Inskip, Esq.	5	2 0	90	..	20·96	..	..
D	Southill School	B. Perkins, Esq.	5	0 9	145	..	25·78	193	120
D	Biggleswade (New Spring P.S.)	T. A. Staniforth, Esq.	5	1 6	180	..	20·24	161	101
D	Sandy (The Lodge)	Mr. R. Pettifer	5	1 0	200	..	23·10	159	122
d	Sandy (Mogerhanger Park)	Dr. C. G. Welch	5	1 0	..	..	24·93	..	113
d	Sandy (Sewage Works)	Sandy U.D.C.	5	0 8	75	..	22·90	..	..
D	Bedford (Castle Road)	Miss M. E. Newbery	5	7 0	108	..	23·04	167	108
D	Bedford (Bedford Park)	The Borough Engineer	8	1 3	117	..	21·29	159	111
D	Great Barford House	J. Arnold Whitchurch, Esq.	5	1 0	120	..	22·92	152	111
	Sharnbrook (Glen Lui)†	L. Stileman-Gibbard, Esq.	5	1 0	220	..	24·93	201	126
	4.—NENE. 7 sq. mi.								
	CAMBRIDGESHIRE. (Area, 859 sq. mi.								
	1.—STOUR. 17 sq. mi.								
	2.—OUSE. 741 sq. mi.								
D	Ashwell (Odsey)	W. Herbert Fordham, Esq.	5	2 0	256	23·0	23·33	179	114
d	Litlington Vicarage	Rev. M. de Courcy-Ireland	8	1 0	80	..	29·13	162	114
D	Guilden Morden Vicarage	Rev. Ll. G. S. Price	5	1 0	140	21·9	23·97	180	121
	Abington Pigotts Hall	Rev. M. de Courcy-Ireland	5	1 0	78	21·8	26·46	..	118
D	Melbourn (Melbourn Bury)	A. R. Fordham, Esq.	5	1 0	90	..	22·00	181	106
D	Meldreth (Chiswick Farm)	A. A. Howard, Esq.	5	1 1	70	22·4	22·66	182	114
d	Whittlesford (Scotts)	Robert Maynard, Esq.	5	0 6	68	22·3	21·65	..	..
d	Wimpole Hall	W. J. Snell, Esq.	5	1 0	141	23·0	21·87	..	108

† Previously at Sharnbrook (Castle Close).

DIVISION III—SOUTH MIDLAND COUNTIES—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Rain-gauge: Average Rainfall.	1932. Rainfall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
CAMBRIDGESHIRE—(*con.*)		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
2.—OUSE—(*con.*)								
d Shelford (Stapleford House)	J. H. H. Linton, Esq.	5	2 3	64	22·3	21·75	..	113
D Balsham Rectory	Rev. H. J. E. Burrell	5	2 6	399	23·0	24·74	156	116
Long Stow	S. Welsford Pain, Esq.	5	1 0	240	..	22·96	..	..
D Grantchester (Lyndewode)	J. Nutter, Esq.	5	1 0	31	22·6	23·28	154	111
D Fulbourn (Fleam Dyke)	Cambridge W.W. Co.	5	1 0	99	21·0	21·36	180	114
D Fulbourn Pumping Station	Cambridge W.W. Co.	5	1 0	37	22·9	21·42	174	107
D Fulbourn (Cambridge Mental Hos.)	The Farm Bailiff	5	1 6	72	..	22·36	146	107
D Cambridge W.W. (Cherryhinton)	Cambridge W.W. Co.	5	1 0	35	21·6	19 01	132	97
Cambridge (Hills Road)	Smith Nutter, Esq.	8	0 10	45	23·8	25·08	..	..
D Cambridge (Corporation Store Yd.)	G. W. Teasdale, Esq., C.E.	5	1 8	52	21·2	21·57	166	103
D Cambridge (Botanic Gardens)	The Curator	5	1 1	41	21·8	20·92	136	98
D Cambridge (Corporation Ppg. St.)	G. W. Teasdale, Esq., C.E.	5	1 7	28	22·1	19·74	153	100
D Cambridge (University Farm)	The Director	5	1 0	81	..	21·14	153	111
D Caxton	Dr. E. P. H. Dudley	5	1 0	170	23·3	20·03	139	108
D Quy Hall	Miss M. S. Francis	5	0 9	23	22·6	22·81	146	118
D Boxworth (Manor House)	E. H. Thornhill, Esq.	5	1 0	76	23·4	22·29	220	109
d Oakington	A. H. V. Bloom, Esq.	5	1 9	27	..	21·13	..	..
d Burwell (Manor House)	J. G. Faircliffe, Esq.	5	1 0	50	23·0	19·12	..	106
D Cottenham (Bernard House)	Miss K. Bull	5	1 6	30	22·1	20·51	174	114
D Conington (Conington Hall)	P. T. Gardner, Esq.	5	1 0	50	24·7	20·92	141	111
D Fordham (London House)	W. V. Bloom, Esq.	5	1 0	30	21·4	20·81	136	115
D Wicken Fen	H. Godwin, Esq.	5	1 3	9	..	22·44	191	132
D Stretham Engine	E. Stevens, Esq.	5	4 9	13	21·2	19·99	132	99
Stretham (Orchard House)	Miss Wright	8	4 6	42	22·0	20·32	143	..
D Prickwillow Vicarage	Rev. W. Francis Hicks	5	1 6	5	..	20·83	171	117
D Littleport (Highfield House)	H. G. Martin, Esq.	8	4 0	67	21·3	20·72	147	110
D Chatteris (Aylesby House)	P. A. S. Ruston, Esq.	5	1 6	31	22·5	21·44	139	107
d March	L. I. Clark, Esq	9	2 0	10	22·8	21·62	..	123
D Upwell (Marmont Priory Lock)	L. I. Clark, Esq	8	1 1	..	20·6	24·52	157	116
3.—NENE. 101 sq. mi.								
D Stanground Sluice	L. I. Clark, Esq.	8	1 6	15	20·3	22·02	177	115
D Parson Drove (Clows Cross)	W. Kingston, Esq.	8	1 0	6	22·1	21·16	167	117
D Wisbech (Horticultural Station)	W. G. Kent, Esq.	5	1 0	10	..	22·79	163	118
D Wisbech (Queen's Road)	C. Dann, Esq	5	1 6	10	26·3	22·49	161	114
d Wisbech (Tydd Manor)	A. H. Carter, Esq.	5	6 6	..	..	21·46	..	111

DIVISION IV—EASTERN COUNTIES.

ESSEX. (Area, 1,532 sq. mi.)

1.—THAMES.—Lea. 132 sq. mi.

D West Ham (Abbey Mills)	London County Council	8	0 10	15	..	23·08	146	107
D Leyton (Sewage Works) (+A)	A. P. Howell, Esq., C.E.	5	0 9	22	..	23·08	152	108
D Leytonstone (High Road)	Miss G. Lister	5	1 3	100	..	23·53	197	116
d Lea Bridge (Waterworks)	Met. Water Board	5	1 0	23	..	21·18	..	114
D Walthamstow (Ferry Lane)	Met. Water Board	5	1 0	40	*23·9*	21·64	163	108
D Woodford (Haggar Lane)	Met. Water Board	8	1 0	176	..	21·58	147	116
D Buckhurst Hill Reservoir	Met. Water Board	8	1 0	275	..	22·02	157	116
D Buckhurst Hill (Ardmore)	Miss E. F. Howard	8	1 0	270	..	24·40	167	140
D Chingford (Crescent Road)	Miss M. L. Mathieson	5	0 10	200	..	21·24	175	120
D Chingford Mill	Met. Water Board	8	1 0	40	..	20·12	153	106
D Loughton (High Beech Res.)	Met. Water Board	5	1 0	376	..	22·25	156	121
D Waltham Abbey (Rammey Marsh)	Met. Water Board	8	1 0	60	..	19·66	162	108
D Waltham Abbey (Pumping Sta.)	Met. Water Board	5	1 0	66	..	19·78	162	101
d Waltham Abbey (Gunpr. Fact.)	The Superintendent	5	1 0	64	..	19·93	..	..
D Hatfield Broad Oak (Barrington)	A. H. Gosling, Esq.	5	0 10	300	..	20·89	183	95
Bishop Stortford (Hassobury)	Major W. S. Gosling	5	0 10	290	..	23·93	184	..
D Stansted (Birchalls)	Mr. W. White	5	1 0	290	..	24·83	161	138

DIVISION IV—EASTERN COUNTIES—(*con.*).

	STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Rain-gauge: Average Rainfall.	1932. Rainfall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
	ESSEX—(*con.*)		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
	1.—THAMES—Lea—(*con.*)								
D	Elsenham (Gaunts End)	H. Cotterell, Esq.	5	1 0	363	24·6	22·55	176	116
D	Stansted (Hargrave Park)	A. H. Abraham, Esq.	5	1 3	300	..	25·17	166	118
D	Stansted (Bentfield Place)	L. D. Gosling, Esq.	5	0 9	300	..	22·98	179	111
	2.—THAMES—Roding, etc. 316 sq. mi.								
D	Grays (Sewage Works)	The Manager	8	1 0	7	..	14·36	128	78
D	Grays (Stanley Road)	Grays U.D.C.	5	3 3	21	..	16·54	122	87
D	Rainham (Riverside Sew. Works)	Dagenham U.D.C.	8	1 3	5	..	18·89	151	103
D	East Ham (Central Park)	Public Health Dept.	8	1 0	15	..	23·71	168	118
D	East Ham Well	Met. Water Board	5	1 0	17	..	22·76	151	113
D	Dagenham Sanatorium	The Medical Superintendent	5	1 0	18	..	16·50	148	100
D	Forest Gate (Monega Road)	C. E. Golding, Esq.	5	0 11	20	..	24·66	172	111
D	Ilford Sewage Works	The Borough Engineer	5	1 0	31	..	21·69	164	111
D	Leigh (Brick House)	Miss I. Bentall	5	0 10	136	..	17·51	134	105
D	South Benfleet (Hillside Road)	H. A. Marshall, Esq.	5	1 0	55	..	16·45	147	99
d	Vange Pumping Station	Southend Water Works Co.	5	1 0	43	..	18·31	..	96
d	Manor Park (City of L'dn. Cemy.)	The Superintendent	5	0 6	50	..	22·96	..	..
d	Pitsea Pumping Station	Southend Water Works Co.	5	1 0	28	..	18·16	..	..
D	Horndon (Eastern Sew. Works)	W. J. Grant, Esq.	8	1 6	23	..	17·23	160	100
D	Hornchurch	Hornchurch U.D.C.	8	1 6	44	..	19·15	162	102
D	Wanstead (Red Bridge)	Met. Water Board	5	1 0	45	..	21·46	156	108
D	Havering-atte-Bower (Fernside)	Benjamin Smith, Esq.	5	1 0	340	..	24·71	185	137
d	Theydon Bois (Birch Hall)	Mrs. Gerald Buxton	5	1 0	300	..	20·05	..	109
d	Theydon Bois (The Vicarage)	Mrs. M. C. Ames	5	0 10	240	..	21·50	(142)	(121)
D	Theydon Bois (Fernside)	C. W. Browne, Esq.	5	0 11	300	..	20·52	154	119
D	North Weald (Canes)	H. W. Hart, Esq.	5	1 0	250	..	21·05	148	112
	3.—CROUCH. 186 sq. mi.								
D	Shoeburyness (New Ranges)	The Meteorological Office	8	1 0	11	18·9	18·12	161	92
D	Southend (The Cliffs)	The Pier Master	8	1 0	90	19·7	17·82	171	95
D	Southend (Kilworth Avenue)	H. J. G. Ralph, Esq.	8	1 0	78	..	19·73	170	106
D	Southend (Waterworks)	Southend Water Works Co.	8	1 0	112	21·1	18·56	166	100
D	Westcliff-on-Sea	Messrs. Boatman, F.S.M.C.	5	1 0	100	..	17·58	148	101
d	Leigh Reservoirs	Southend Water Works Co.	5	1 0	177	..	18·28	..	..
D	Great Wakering	The Meteorological Office	5	1 0	11	18·4	18·97	144	95
D	Little Wakering Vicarage	The late Rev. B. S. Mercer	5	1 0	15	..	21·12	177	108
D	Eastwood Pumping Station	Southend Water Works Co.	8	1 0	50	..	19·11	166	104
D	Thundersley Reservoir	Southend Water Works Co.	5	1 0	277	..	18·79	159	108
w	Nevendon Pumping Station	Southend Water Works Co.	5	1 0	43	..	18·59	..	..
D	Foulness (Court End)	Terence More, Esq.	5	1 0	10	..	20·45	151	99
D	Billericay (Service Tank)	Southend Water Works Co.	5	1 0	310	..	18·34	162	101
D	Billericay (Ramsden Hall)	T. W. Bacon, Esq.	5	0 9	260	..	22·88	166	122
d	Wickford (Runwell Hall)	Miss A. Kemble	5	0 7	75	*24·2*	22·76	..	117
D	Southminster (Dudswell)	Mrs. H. G. Owen	5	1 0	60	..	20·65	153	102
d	Southminster (The New Moor)	The late E. J. Attenborough, Esq.	5	1 6	72	..	18·86	..	98
D	Bradwell-on-Sea (Bradwell H.)	H. D. Chillingworth, Esq.	5	4 0	27	20·7	20·02	141	101
	4.—BLACKWATER. 425 sq. mi.								
D	Shenfield (The Lodge)	Harcourt P. Landon, Esq.	5	1 0	305	..	22·21	140	108
d	South Hanningfield (Bearmains)	C. W. Gardner, Esq.	8	1 10	220	..	21·22	..	109
D	Ingatestone (Trueloves)	W. Ransom, Esq.	5	1 0	249	..	20·24	175	110
D	Ingatestone (Fryerning)	A. E. Christy, Esq.	5	1 0	290	..	21·58	207	120
d	Danbury Park Gdns.	The Head Gardener	5	1 6	120	..	21·94	..	102
D	Maldon	Town Clerk	5	1 0	14	..	18·40	147	94
D	Chelmsford (Sandford Mill W.W.)	The Surveyor	8	5 5	69	..	20·37	175	100
D	Writtle (Melbourne)	J. A. Rosling, Esq.	5	0 9	140	..	22·61	184	117
D	Chelmsford (County Laboratory)	East Anglian Inst. Agric.	5	1 0	134	22·3	20·13	171	111
	Chelmsford (Little Baddow)	A. L. Woodhouse, Esq.	5	1 0	180	..	20·19	..	..
D	Langford (Treatment Plant)	Southend Water Wks. Co.	8	1 5	40	..	20·42	172	98
d	Witham (Wickham Hall)	D. B. Smith, Esq.	5	0 10	60	..	18·37	..	..
D	Good Easter	East Anglian Inst. Agric.	5	1 0	185	..	19·15	176	110
d	Wickham Bishops	Mrs. Fowler	5	1 4	250	..	18·66	..	..

DIVISION IV—EASTERN COUNTIES—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Rain-gauge: Average Rainfall.	1932. Rainfall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
ESSEX—(*con.*)		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
4.—BLACKWATER—(*con.*)								
D Tolleshunt D'arcy (Oxley Hill)	H. Campkin, Esq.	5	0 9	100	..	22·75	168	92
D Pleshey Vicarage	Rev. C. H. B. Woodd, M.A.	8	1 3	200	..	20·04	202	113
D Terling Place Gdns.	B. May, Esq.	5	1 2	100	..	17·88	157	104
D Witham (Faulkbourne Hall)	Miss C. L. Parker	5	0 8	100	..	19·18	162	100
D Little Leighs (Lavender Leez)	W. C. Neild, Esq.	5	1 2	192	..	20·55	143	111
D Messing Vicarage	Rev. W. G. Whittam	5	2 1	120	..	19·95	154	106
D Kelvedon (Lawn House)	F. Randolph-Symmons, Esq.	5	1 0	96	..	20·03	145	117
D Kelvedon (White Barn)	Messrs. W. & H. J. Sheldrake	5	1 5	135	..	19·93	154	115
D Felsted School	E. H. Lockwood, Esq.	5	0 10	248	*22·9*	20·12	149	108
D Little Dunmow (Throws)	Mrs. D. Hasler	5	0 9	260	..	19·75	159	113
D Great Dunmow	Messrs. Hasler & Co., Ltd.	5	1 0	200	..	19·73	145	100
D Rayne (Staneway)	Mrs. Burt	5	1 1	247	..	21·46	153	113
d Braintree (Bocking Hall)	Terence More, Esq.	5	1 1	147	..	(20·04)	..	..
d Shalford (Littles)	W. F. Hart, Esq.	5	1 0	280	..	(22·94)	(174)	(120)
D Great Bardfield (South Lodge)	A. W. Brunwin, Esq.	5	1 0	250	..	21·30	172	112
5.—COLNE & C. 283 sq. mi.								
d St. Osyth (Wigborough Wick)	P. B. Smith, Esq.	5	2 0	10	..	19·54	..	98
D Clacton-on-Sea	The Town Clerk	8	1 0	55	20·5	19·25	144	103
D Great Clacton (Clay Hall)	Miss E. A. Smith	5	1 0	45	..	20·77	134	105
d Tiptree (Brook House)	A. Hitchcock, Esq.	5	0 11	120	..	(20·21)	..	..
D Layer Breton (The White House)	E. H. Barritt, Esq., J.P.	5	1 0	89	..	19·82	166	101
D Walton-on-the-Naze	The Town Clerk	5	1 0	66	..	20·54	139	105
D Colchester (King's Ford) *new g.*	Cmdr. E. A. Digby, R.N., K.C.	5	1 0	103	..	18·87	149	95
d Colchester (Hythe Gas Works)	Colchester Gas Co.	8	0 10	12	..	18·95	(179)	(98)
D Colchester (Boro' Surveyor's Off.)	H. Collins, Esq., C.E.	8	1 2	87	..	22·14	176	114
D Colchester (Waterworks)	A. Hammond, Esq.	5	1 5	37	..	19·46	165	110
D Lexden (Hill House, S. No. 2)	S. F. Hurnard, Esq.	5	1 0	90	..	18·59	150	100
D Great Bromley (Broughton)	W. A. Roberts, Esq.	5	1 0	115	..	20·84	140	114
D Earls Colne (Grammar School)	The Headmaster.	5	1 0	168	..	20·00	169	105
Halstead (Attwoods)	R. E. Vaizey, Esq.	5	1 6	200	..	22·21	175	119
D Halstead (The Brewery)	F. N. Adams, Esq.	5	1 0	139	..	21·48	160	110
Gt. Maplestead (Monk's Hall)	Miss J. Miller	5	1 0	200	..	19·90	..	..
D Great Yeldham Hall	G. A. Goodchild, Esq.	5	2 0	200	..	20·93	180	113
6.—STOUR. 110 sq. mi.								
D Dovercourt	Harwich Corporation	5	1 0	47	..	19·16	127	96
D Mistley (The Maltings)	Messrs. Brooks (Mistley) Ltd.	8	1 0	25	..	16·99	154	104
D Bulmer (Sandy Lane)†	P. Chinery, Esq.	5	1 3	202	*25·6*	21·12	166	114
7.—OUSE. 80 sq. mi.								
d Widdington Rectory	Rev. Jas. W. Court	5	1 6	340	..	23·16	..	106
D Great Chesterford Mills	E. H. King, Esq.	5	1 0	130	..	23·34	147	107
SUFFOLK. (Area, 1,489 sq. mi.)								
1.—STOUR. 271 sq. mi.								
D East Bergholt (Ackworth Ho.)	A. Harwood, Esq.	8	1 6	145	..	18·12	184	104
d Nayland (Broomfields)	L. M. Russell, Esq.	5	1 0	140	..	17·26	..	..
D Capel St. Mary School	Bernard B. Taylor, Esq.	5	1 6	156	..	19·65	181	116
d Assington Hall	Mr. E. J. Ottaway	5	1 0	200	..	19·96	173	112
D Great Cornard (The Limes)	E. Oliver, Esq.	5	0 9	85	..	20·53	..	115
D Sudbury (Friars St.)	E. Ransom, Esq.	5	1 6	93	*23·5*	20·51	195	112
D Hadleigh (Penlands)	E. A. Lee, Esq.	5	1 0	185	..	21·68	186	121
D Waldringfield (Holbrook Hall)	Mrs. F Ramsay	5	1 1	185	..	20·46	160	106
D Clare (Nethergate House)	Lt.-Col. R. C. Bond, D.S.O.	5	1 8	130	..	20·03	169	107
D Hartest (Chadacre Institute)	The Principal	5	1 0	250	..	22·64	173	121
2.—ORWELL. 166 sq. mi.								
D Ipswich (Rookwd., Copdock) (+A)	F. L. Bland, Esq.	8	1 0	164	*24·5*	20·80	171	104
D Ipswich (Roundwood)	Alfred G. Glenn, Esq.	5	1 0	145	..	19·83	174	103

† Previously at Sudbury (Bulmer Lodge).

DIVISION IV—EASTERN COUNTIES—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Rain-gauge: Aver-age Rain-fall.	1932. Rain-fall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
SUFFOLK—(*con.*)		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
2.—ORWELL—(*con.*)								
D Ipswich (Museum)	F. M. Cullum, Esq.	8	1 0	72	..	18·79	159	105
D Ipswich (All Saints' Vic.)	Rev. S. C. Calver	5	1 5	..	..	19·10	169	109
D Ipswich (Dale Hall)	Percy Turner, Esq.	8	1 0	135	..	19·45	172	113
Elmsett (Laurel Cottage)	A. E. Ladbrook, Esq.	5	2 0	210	..	21·83	..	117
D Nettlestead (High Hall)	A. S. P. White Cooper, Esq..	5	1 6	236	..	20·00	148	120
D Coddenham (Shrubland Park)	Mr. A. C. Horton	5	1 6	162	..	21·92	150	125
D Haughley (Haughley House)	Mrs. S. H. Creagh	5	0 9	180	..	19·67	154	108
D Haughley (Pine Lodge)	A. A. Geater, Esq.	5	1 6	131	..	23·03	173	131
3.—DEBEN & C. 466 sq. mi.								
D Felixstowe Aerodrome..(+A)	The Meteorological Office...	8	1 0	15	20·3	18·30	149	93
D Waldringfield	Major B. R. M. Glossop....	8	1 0	70	..	23·02	189	108
D Woodbridge Abbey	Col. R. J. Carthew	8	1 2	46	..	22·77	197	113
D Orford (The Gables)	Miss E. A. Rope	5	1 1	30	..	21·93	174	119
Melton (Greylands)	Miss Jervis-White-Jervis...	5	2 0	50	..	22·15	154	124
D Melton (St. Audrey's Hospital)	The Clerk and Steward	8	1 2	74	..	20·24	161	118
D Melton (Bromeswell Rectory)	Rev. F. Shadwell	5	1 5	35	..	21·27	163	109
D Henley Hall	Mrs. Gascoigne	5	2 0	150	..	22·61	201	132
d Rendlesham Hall	Mr. H. Long	5	1 6	88	23·1	21·25	..	110
D Campsea Ashe (High House)	Viscount Ullswater, G.C.B..	8	1 0	60	23·0	22·19	168	114
d Aldeburgh (Sanditon)	Miss L. Austen-Leigh	..	..	..	..	16·88	..	..
Charsfield (Red House)	Hugh P. Youngman, Esq...	5	1 9	150	..	22·03	..	..
D Blaxhall	R. H. Sherwood, Esq.	5	1 0	..	..	22·43	175	115
D Pettaugh (Laffitte Hall)	W. B. Damant, Esq.	5	1 6	190	..	22·93	178	139
D Snape (Green Heys)	Mrs. G. H. Garrett	5	1 1	100	..	22·47	159	119
D Snape (Wadd House)	Capt. E. H. Buxton	5	1 0	25	..	21·62	164	114
D Leiston (Lower Abbey)	Miss M. K. Rope	5	1 0	30	..	21·47	170	118
Heveningham Hall	Hon. A. Vanneck	5	0 7	100	..	23·84	..	..
D Southwold (Quay House)	Miss P. Corns	5	1 1	30	..	21·09	172	119
D Halesworth Rectory	Rev. H. C. Newbery	5	1 0	50	..	24·16	186	125
D Halesworth (Estate Office)	G. W. Stanford, Esq.	5	1 5	120	..	21·86	168	121
D Wangford (Ford House)	Hon. Agnes Eden	5	0 10	25	..	22·96	160	123
D Wrentham (Sotterley Hall)	M. E. St. J. Barne, Esq.	5	0 10	70	..	22·45	172	118
4.—YARE & C. 208 sq. mi.								
D Horham Rectory	Rev. J. E. Soden	5	1 3	175	..	23·45	168	142
D Yaxley	R. L. T. Clarkson, Esq.	5	1 0	162	..	25·07	201	131
D Rumburgh Vicarage	Rev. W. Linton Wilson	5	1 0	187	..	21·40	196	105
D Bungay (Flixton Hall)	Sir Shafto Adair, Bart.	5	1 0	79	..	20·47	147	118
D Lowestoft (Secondary School)	Lowestoft Corporation	5	1 0	82	23·5	21·99	181	120
D Lowestoft (Briar Clyffe)	H. Hollingsworth, Esq.	5	0 7	..	..	22·42	165	118
Blundeston House	L. J. Peto, Esq.	8	1 1	30	..	22·38	..	..
D Herringfleet House	G. H. Wyllys, Esq.	5	1 0	55	..	21·59	193	131
D Lound Pumping Station	Lowestoft Water & Gas Co..	8	1 0	34	..	20·56	194	113
D Hopton (Hopton House)	C. S. Orde, Esq.	6	1 0	..	..	21·01	161	111
D Fritton Warren	Maj.-Gen. R. Upcher, D.S.O.	5	1 0	42	..	23·00	187	132
D Fritton Hall	Major A. R. Buxton	8	0 11	30	..	22·81	215	142
D Yarmouth (Burgh Hall)	H. P. Frederick, Esq.	5	1 0	40	*24·4*	23·75	201	137
5.—OUSE. 378 sq. mi.								
d Newmarket (Sewage Outfall)	W. H. Elev, Esq., C.E.	5	1 0	81	..	22·36	..	..
D Bury St. Edmunds (Southbridge Ho.)	Miss E. M. Branford	5	1 0	100	..	26·42	194	130
D Bury St. Edmunds (Whiting St.)	Rev. H. I. Kilner	8	0 10	146	..	26·78	192	133
Bury St. Edmunds (Westley H.)	Mrs. Burrell	5	1 0	226	25·1	26·21	170	140
d Bury St. Edmunds (Beet Sugar Factory)	United Sugar Co., Ltd.	5	0 6	159	..	22·64?	..	..
D Fornham St. Martin	Mr. H. Parker	5	1 0	125	..	23·44	160	126
D Hengrave Hall	Sir John Wood, Bart.	5	1 5	85	*23·1*	23·01	148	125
D Bury St. Edmunds (Troston Hall)	F. S. Beauford, Esq.	5	1 0	130	..	22·28	171	119
D Mildenhall	H. R. W. Forster, Esq.	5	1 3	50	..	20·37	155	144
Barningham (The Beeches)	Miss A. K. Lingwood	5	0 9	136	..	21·68	..	..
D Elveden Hall	The Earl of Iveagh, C.B.	5	1 0	130	..	20·14	207	128

DIVISION IV—EASTERN COUNTIES—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Aver-age Rain-fall.	1932. Rain-fall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
NORFOLK. (Area, 2,044 sq. mi.)		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
1.—YARE. 658 sq. mi.								
D Diss (The Cedars)	Dr. H. M. Spiers	5	0 8	108	..	21·27	170	119
D Pulham St. Mary (Brook House)	E. Beevor, Esq.	5	1 0	120	..	22·21	189	125
D Pulham St. Mary (Hill House)	W. G. Rutter, Esq.	5	1 0	120	24·7	23·43	208	138
D Ditchingham	W. G. Rutter, Esq.	5	1 0	25	23·9	21·11	208	120
D Hapton Parsonage	Lt.-Col. H. C. Copeman	5	1 0	100	..	24·24	189	133
D Spooner Row (Wattlefield Hall)	E. F. Routh Clarke, Esq.	5	1 0	161	..	26·19	187	139
D Lodden (Chedgrave Manor)	C. E. Dupuis, Esq.	5	1 6	17	24·2	19·28	177	123
D Wymondham (Morley School)	T. E. Ormond, Esq	5	1 0	157	25·3	24·99	234	140
D Wymondham	J. B. Pomeroy, Esq.	5	1 3	118	..	22·92	184	130
D Hingham	F. B. Law, Esq.	5	1 0	193	25·1	24·70	193	140
D Ketteringham	Lt.-Col. R. F. Boileau	5	1 0	135	..	25·44	199	133
D Keswick Old Hall	E. Knight, Esq.	5	1 0	90	26·4	25·88	214	133
D Gorleston Coastguard Station	The Meteorological Office	8	1 0	14	24·5	20·80	182	123
D Norwich (Claremont Road)	W. S. Tillett, Esq.	8	1 0	100	..	24·87	204	135
D Norwich (Eaton)	R. J. Preston, Esq.	5	1 0	98	26·5	24·37	196	135
D Norwich (Carrow Abbey Gar.)	The Misses Colman	5	1 0	40	25·2	24·57	197	142
D Norwich (Ipswich Road)	J. H. Willis, Esq.	5	1 0	110	25·9	24·89	202	135
D Norwich (Heigham Cemetery)	L. Alan Jewell, Esq.	5	1 2	37	25·5	24·77	188	129
D Thorpe St. Andrew (Pine Banks)	H. J. Jarrold, Esq.	5	1 7	140	..	24·31	200	138
Norwich (Marlingford Hall)	Major E. H. Evans-Lombe	5	1 0	50	26·9	28·11	177	..
D Norwich (Catton Hall)	D. G. Buxton, Esq.	..	1 0	100	..	24·29	181	129
D Sprowston (Oak Lodge)	A. Cozens Hardy, Esq.*	5	1 0	100	25·2	25·40	219	135
d Drayton Hall	C. H. Walter, Esq.	5	1 0	..	26·0	24·77	..	119
d Swanton Morley Rectory	Rev. R. N. Usher	5	1 0	105	24·3	27·75	(177)	(140)
D Bylaugh Park	Mrs. Rice	5	1 0	..	24·8	27·12	201	138
D Swanington (Heath House)	P. Norgate, Esq.	5	1 3	101	25·6	24·84	209	140
D East Bilney Hall	K. W. Hervey, Esq.*	5	1 0	140	26·6	27·33	176	134
D Cawston Rectory	Rev. T. H. Marsh	5	1 0	120	26·6	25·68	196	133
Fakenham	T. P. Godfrey, Esq.	5	1 0	150	..	22·83	..	..
2.—YARE—Bure & c. 868 sq. mi.								
d Acle	Miss Davie*	5	0 6	51	25·1	(23·97)	(193)	(123)
D Sprowston (The Church Farm)	The Director.	5	1 0	93	..	26·12	183	127
D Yarmouth (Ormesby St. Michael)	Gt. Yarmouth W.W. Co.	8	1 0	22	26·2	22·43	191	132
d Coltishall Hall	Rev. H. Rogers.	5	1 6	25	25·5	25·97	195	137
D Worstead (Lyngate Cottage) (+A)	Miss F. E. Hooper	8	1 3	50	26·5	24·21	192	132
D Hindolveston (School House)	The Headmaster	5	1 0	300	..	28·51	230	147
D Colby School	John Blott, Esq.	5	1 0	50	..	25·96	204	142
D North Walsham (The Paston Sc.)	Major P. Pickford	5	1 0	100	..	22·98	191	128
D Walcott-on-Sea	Lt.-Col. R. S. Hunt, D.S.O.	5	1 0	20	..	22·49	176	128
D Swafield Rectory	Rev. H. Muir	5	0 10	100	25·5	23·41	185	127
d North Walsham (Gunton Park)	The Head Gardener	8	1 3	105	25·9	(23·92)	..	..
D Cromer (Northrepps Hall)	Lt.-Col. C. R. Gurney	5	1 2	225	26·7	24·76	195	141
D Hanworth Rectory	Rev. Wilson W. White	5	0 10	95	..	24·91	189	134
3.—STIFFKEYS & C. 290 sq. mi.								
D Sandringham House Gardens	Mr. T. H. Cook	5	0 9	121	27·0	27·65	189	140
D Syderstone (The Rectory)	Rev. B. D. Reed	5	1 0	210	..	27·87	193	136
D Cromer (The Warren)	F. H. Barclay, Esq.	5	1 0	101	24·1	23·61	177	135
D Cromer (Howards Hill)†	Cromer U.D.C.	8	1 0	178	23·8	24·20	181	121
D West Runton	Miss J. Vernon-Harcourt	5	1 0	113	..	22·52	178	113
D Holkham (Longlands)	Earl of Leicester, G.C.V.O.	5	0 10	200	..	29·54	234	146
D Langham Episcopi Vicarage	Rev. John H. Toy*	5	0 6	139	23·2	24·37	180	137
D Sheringham Hall	Miss E. Upcher	5	0 9	130	23·6	23·08	188	123
D Sheringham (Skelding)	F. Hall Smith, Esq.	5	1 0	60	..	24·44	174	123
Sheringham (Old Coastguard Ho.)	Rev. E. C. S. Upcher	5	1 6	20	..	24·10	174	128
d Wells (Holkham Hall)	Earl of Leicester, G.C.V.O.	5	0 3	43	23·1	24·51	..	..
D Hunstanton	The Advancement Assn.	5	1 1	105	..	19·67	168	116

* *Per* Norfolk Rainfall Organisation. † Formerly called Gas Works.

DIVISION IV—EASTERN COUNTIES—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1932. Rainfall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
NORFOLK—(*con.*)		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
4.—OUSE & C. 709 sq. mi.								
D Garboldisham Manor	Major E. W. Denny, D.S.O..	8	1 0	70	23·2	22·94	212	131
d Thetford (Ford Street Gdns.)	Mr. A. Pipe	5	1 0	44	23·4	22·50	..	..
D Thetford (Kilverstone Hall)	Baron Fisher of Kilverstone	8	1 0	70	21·7	23·90	192	133
D Thetford (Waterworks)	C. W. Holmes, Esq	8	1 0	165	23·8	22·83	211	129
d Attleborough (Quidenham Hall)	Earl of Albemarle	5	1 0	100	24·1	24·64	..	132
D Hargham Hall	Sir H. R. Beevor, Bart. M.D.	5	0 6	100	24·9	25·11	203	134
D Caston (Flaxmoor)	Lt.-Col. T. S. N. Hardinge..	5	1 1	150	..	22·73	196	137
D Watton	A. A. Gompertz, Esq	5	1 0	166	25·7	24·74	183	132
D Great Cressingham	J. W. Montgomery, Esq....	5	1 0	90	..	25·36	215	145
D Downham (Dial House)	Messrs. T. H. Wenn & Co...	5	1 6	..	..	24·21	174	132
D Downham (High Street)	J. M. Jackson, Esq	5	1 3	16	..	23·22	178	131
d Outwell (Well Creek Sluice)	L. I. Clark, Esq	8	2 6	16	22·0	22·67	..	120
D Wimbotsham School	The Headmaster	5	1 0	43	..	25·73	190	133
D Wallington Hall	J. L. Luddington, Esq.....	5	1 0	58	23·7	24·90	169	118
D Swaffham (The Villa)	Mr. J. H. Mack	5	0 9	246	26·3	27·23	161	137
d Swaffham	Messrs. Vynne & Everett, Ltd.	5	2 7	210	..	29·98	(156)	(131)
D Sporle	T. S. Matthews, Esq	5	4 0	230	..	28·79	210	142
d Little Dunham (Dunham Cott.)	Miss S. Blamire	5	0 11	265	27·2	(27·40)	(183)	(146)
D Wiggenhall (St. Germans Sluice)	L. I. Clark, Esq	8	1 6	..	23·1	24·49	189	140
d East Winch (Holland House)	J. C. Cottam, Esq	5	1 6	55	23·3	28·07	206	126
D Gayton Waterworks	J. C. Matthew, Esq., C.E...	5	1 0	131	..	31·05	177	140
d King's Lynn (Manure Works)	J. Brown, Esq	5	1 2	10	..	22·31	..	..
D Tittleshall	Capt. H. G. Buxton	5	1 6	285	26·8	27·25	184	140
D Grimston (School House)	J. R. Steward, Esq	5	1 2	62	..	29·74	210	137
5.—NENE. 19 sq. mi.								
D Emneth (Inglethorpe Manor)	F. M. Bland, Esq	5	1 0	6	22·4	22·18	187	114

DIVISION V—SOUTH-WESTERN COUNTIES.

WILTSHIRE. (Area, 1,375 sq. mi.)

1.—LOWER AVON. 386 sq. mi.								
D Westbury (Cambridge House)	Dr. W. K. A. Richards.....	5	1 0	190	..	34·38	170	117
D Westbury (The Vicarage)	K. E. Alexander, Esq.....	5	1 0	181	..	32·67	177	116
D Market Lavington (Old House)	Miss A. Pleydell Bouverie..	5	0 9	290	29·0	30·54	158	120
Gt. Cheverell (Timoleague)	Rev. H. S. Travers	5	0 6	360	..	30·16	..	..
D Easterton (Kestrels)	R. Lake, Esq	5	1 0	370	..	29·06	152	115
D Trowbridge (Town Hall)	The Engineer	8	1 2	131	..	29·84	172	115
D Bradford (Winsley Manor)	E. W. Knatchbull, Esq.....	5	0 8	400	29·9	36·43	180	128
D Bradford (Manvers House)	Dr. C. E. S. Flemming.....	5	1 3	130	29·9	35·01	177	131
D Seend (Cleeve House) (R)	Lt.-Col. W. C. Heward Bell.	8	1 0	160	27·5	32·74	188	121
D Holt (The Retreat)	A. V. H. Beaven, Esq.....	5	1 0	145	30·3	34·51	172	136
D Devizes (Broadleas)	W. H. L. Ewart, Esq.....	5	1 0	400	..	33·32	204	126
D Devizes (Highclere)	H. W. Green, Esq.....	5	1 6	450	28·3	33·97	177	128
D Rowdiford Gardens (R)	Mrs. R. E. S. Thomas.....	8	2 0	..	..	(33·53)	167	127
D Great Chalfield	Major R. F. Fuller.....	5	1 2	165	28·6	32·28	169	133
D Little Chalfield	Miss C. E. Baker.....	5	1 0	180	..	31·12	198	137
D Bowood House	The Marquess of Lansdowne, K.G., P.C.	5	0 4	306	..	34·16	172	135
D Calne (Castleway)	E. W. Brown, Esq.....	5	1 0	250	28·9	34·65	168	134
D Calne (Compton Bassett Gdns.)	Mr. H. Welch.....	5	0 10	384	30·7	36·44	161	131
D Chippenham (Monkton Park)	Lord Methuen	5	1 0	200	..	33·65	161	126
Chippenham (Kington Langley)	Mrs. Charles Garnett.....	8	1 0	172	30·3	36·57	..	..
D Grittleton	Lt.-Col. Sir A. D. Neeld, Bt., D.L., C.B. ..		..	..	..	37·04	167	133
D Wroughton (Basset Down Ho.)	Mrs. Arnold Forster.....	5	1 0	500	29·8	35·08	160	127
D Tockenham Manor	Major G. J. Buxton.....	5	1 0	400	..	32·80	172	121

DIVISION V—SOUTH-WESTERN COUNTIES—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1932. Rainfall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
WILTSHIRE—(*con.*)		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
1.—LOWER AVON—(*con.*)								
w Luckington Court	Col. Sir E. Johnson-Ferguson, Bt.	5	0 8	400	30·2	31·35	..	..
D Malmesbury (Burton Hill Ho.) (R)	H. L. Storey, Esq.	8	4 0	240	..	31·66	189	122
d Malmesbury (Lea House)	Rev. H. Milnes-Walker	5	1 6	260	..	32·37	..	116
D Malmesbury (Easton Grey)	Mr. P. A. Day	5	1 0	355	31·6	34·18	174	132
2.—STOUR. 33 sq. mi.								
D Mere (Charnage)	A. R. White, Esq	5	1 6	426	33·8	31·71	192	138
D Stourhead	Sir H. H. A. Hoare, Bart.	5	1 0	583	38·1	40·86	173	139
D Kilmington Rectory	Rev. H. G. Fox Strangways*	5	1 6	710	39·8	42·31	212	146
3.—EAST AVON. 554 sq. mi.								
D Longford Castle Gardens	The Earl of Radnor	5	1 0	139	31·4	31·05	181	124
D Salisbury (Harnham)	E. F. Taunton, Esq., Junr.	5	1 0	200	..	31·17	182	133
D Fonthill House Gardens	Hugh Morrison, Esq.	5	1 0	400	37·8	37·82	182	148
D Salisbury (Sewage Works) (+A)	H. V. Overfield, Esq., C.E.	5	1 0	146	29·7	26·64	166	115
D Salisbury (Manor Road)	Miss L. C. D. Awdry	5	1 0	250	29·2	29·22	183	133
D Salisbury (Atherton House)	Wilfrid Fletcher, Esq.	5	1 0	250	30·4	28·93	179	119
D Salisbury (Newlands)	Dr. T. W. Newton Dunn	5	1 0	175	..	27·89	152	118
D Stratford-sub-Castle (Manor Ho.)	Miss F. Carpenter	5	0 9	168	28·3	30·19	173	124
D Woodford Vicarage	Rev. M. I. Holme	5	0 10	200	..	30·31	202	122
D Porton (W.D. Exp'l. Stn.) (+A)	Meteorological Office	5	1 0	363	26·5	26·85	166	118
D Steeple Langford (Woodstock)	Miss A. J. Powell	5	1 0	257	..	31·12	167	126
D Maiden Bradley House	The Duke of Somerset	5	1 0	620	38·4	39·82	146	128
D Maiden Bradley	R. Luff, Esq.*	4	3 0	600	..	38·05	157	135
D Amesbury (Boscombe Down)	Meteorological Office	8	1 0	417	..	28·18	167	115
D Heytesbury	Dr. Hammond T. Hinton	5	1 0	300	31·7	31·23	181	117
D Warminster (Henford)	Mrs. Robinson	5	1 8	400	..	37·32	162	145
D Larkhill (School of Artillery) (+A)	The Meteorological Office	5	1 0	440	25·5	28·50	169	114
D Warminster (Smallbrook Ho.)	G. E. Vicary, Esq.	5	0 8	420	..	33·67	175	126
D Orcheston St. Mary	Mrs. Smith	5	0 9	285	..	29·83	170	145
d Marlborough (Wilcot Manor)	Lady Ernest St. Maur	5	1 0	400	..	34·98	..	..
D Bishops Cannings	A. J. Combes, Esq.	5	1 0	446	30·3	34·27	200	140
4.—TEST. 77 sq. mi.								
D Landford (Northlands)	Cedric R. Boult, Esq.	5	1 0	180	30·7	29·28	172	116
D Redlynch Grange	Maj. E. Fitz-Herbert Wright	5	1 0	300	..	31·19	175	116
D West Grimstead	W. W. Wadsworth, Esq.	5	1 0	250	..	31·17	165	127
D Ludgershall (Conholt Park) (R)	E. A. Wigan, Esq.	8	1 0	800	33·9	30·58?	153	120
5.—THAMES—Kennet. 169 sq. mi.								
D Bishops Cannings (Shepherds Shore)	C. G. Barrett, Esq.	8	2 1	564	..	34·67	174	119
D Marlborough College	W. F. Harling, Esq.	5	1 0	424	31·1	36·40	194	128
Marlborough (Salisbury Road)	E. Kinder, Esq.	5	1 11	450	..	35·35	..	..
D Aldbourne (Manor House)	Capt. W. Brown, J.P.	5	1 1	435	..	33·95	190	126
D Aldbourne (Upham House)	Lady Currie	5	1 2	881	30·3	36·96	178	139
6.—THAMES—Cole & c. 156 sq. mi.								
D Wroughton (Swindon W.W.)	J. B. L. Thompson, Esq., C.E.	5	1 2	448	..	34·25	172	126
D Chiseldon (Hodson House)	A. Ashford, Esq.	5	0 9	560	29·0	35·35	182	136
D Swindon (Commonweal Sec. Sch.)	The Headmaster	5	1 0	469	..	33·21	189	129
D Swindon (Town Gardens)	J. B. L. Thompson, Esq., C.E.	5	1 4	471	27·5	31·64	157	129
D Purton (Restrop House)	Col. A. Canning	5	1 3	444	27·7	31·29	159	128
d Fairford (Marston Hill)	Maj. R. Hamilton Stubber,	5	0 10	350	..	28·06	..	..

* *Per* Mid-Wessex Rainfall Association.

DIVISION V—SOUTH-WESTERN COUNTIES—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Aver-age Rain-fall.	1932. Rain-fall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
DORSETSHIRE. (Area, 988 sq. mi.)		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
1.—PARRETT. 61 sq. mi.								
D Evershott (Melbury House)	Mr. W. G. Lee	5	2 0	460	38·7	43·28	165	123
D Chedington Court	Sir Henry Peto, Bart	8	1 0	605	38·5	39·83	183	128
D Sherborne Castle	Mr. Edwin Hill	5	1 0	195	32·5	33·64	183	139
D Sherborne (Crendle Court)	A. Tyrwhitt Drake, Esq.	5	0 9	380	..	33·67	162	126
D Sherborne (Barton Gardens)	C. E. Bean, Esq., C.E.	8	1 0	285	..	32·45	183	131
Sherborne (Castleton)	Reading T. Grantham, Esq.	5	1 0	220	31·8	34·98	..	..
2.—AXE. 25 sq. mi.								
d Broadwindsor (Blackdown Ho.)†	Lt.-Col. C.E.St.J.Harris-St.John	5	0 8	530	..	(42·24)	(157)	(133)
D Forde Abbey	G. D. Roper, Esq.	5	0 10	200	37·7	41·64	164	124
3.—FROME & C. 502 sq. mi.								
D Portland Bill (Lighthouse) *new g.*	The Meteorological Office	8	1 0	32	..	24·79	154	110
d Portland (H.M. Naval Depot)	The Works Officer:	8	1 0	25	..	28·66	..	..
D Weymouth (Lansdowne Villa)	Paym.-Capt. T. Seaman, R.N.	5	7 0	100	..	26·31	172	112
D Weymouth (Westham)	G. Nicolson, Esq.	5	1 0	20	28·0	25·85	165	111
D Weymouth (Springfield)	Major J. H. C. Devenish	5	1 3	96	27·9	25·48	176	112
D Radipole (Abbots Court)	C. E. M. Pinney, Esq.	5	0 9	58	..	28·77	170	121
D Chickerell (Montevideo)	Mrs. N.M. Richardson, O.B.E.	5	1 0	100	28·9	27·00	210	130
D Tyneham House	Mrs. W. H. Bond	8	1 0	255	32·8	31·56	172	135
D Steeple (Manor House)	Major F. H. Swann	5	1 0	231	34·8	35·36	184	146
D Creech Grange	J. W. G. Bond, Esq., C.B.	5	1 0	228	37·1	33·67	170	130
D Langton Herring (The Manor)	E. A. Sparks, Esq.	5	1 0	160	..	27·99	182	125
D Winfrith Rectory	Rev. C. S. Pugh	5	3 0	200	..	32·86	174	130
D Abbotsbury (West Street)	J. C. P. White, Esq.	5	1 6	147	29·2	31·41	151	123
D Abbotsbury (Cotoneaster)	A. H. White, Esq.	5	1 0	157	..	29·57	163	117
D Upwey (Friar Waddon)	R. Davison, Esq.	5	1 0	215	..	32·77	169	139
D Upwey (Higher Well)	R. Davison, Esq.	8	1 0	289	..	32·56	171	137
D Wareham (East Holme)	Miss L. S. Bond	5	1 0	23	33·9	32·89	163	128
D Wareham (The King's Barrow)	Major R. Fielden	5	1 4	15	31·8	35·13	190	130
D Wareham (Binnegar Hall)	Mr. J. W. Hayward	5	1 0	65	33·8	31·14	167	124
D Wareham (Stockford)	W. Bond, Esq.	8	0 11	65	33·4	31·56	181	122
D Wareham (Trigon)	Mrs. L. Sturdy	8	1 4	60	32·1	29·99	161	112
D Dorchester (Littlemayne)	E. R. Sykes, Esq.	5	1 0	200	..	31·81	168	110
d Dorchester (Kingscote)	Mrs. H. M. Ffooks	5	1 0	226	38·3	36·52	..	131
D Dorchester Waterworks	H. D. Strange, Esq.	8	1 0	314	36·6	35·64	174	135
D Dorchester (Stinsford)	J. Wyndham Hull, Esq.	5	0 10	207	37·4	34·83	167	119
Dorchester (Birkin House)	Col. W. H. F. Weber, C.M.G., D.S.O.	5	1 0	230	37·4	34·82	168	122
D Puddletown (Clyffe Ho.) (A)	Maj. W. Van de Weyer	8	4 0	200	..	30·02	171	121
D Poole (A)	Medical Officer of Health	6	1 8	18	..	29·57	167	120
D Holton Heath (R.N. Cordite Fac.)	The Superintendent	8	1 0	64	29·9	30·28	169	121
D Parkstone (Firgrove)	F. R. Wadman, Esq.	5	1 0	175	28·6	28·22	195	131
D Parkstone (Rosemead)	S. Hyla Greves, Esq.	5	1 0	172	..	30·86	180	127
D Parkstone (Parkside Road)	H. Blanchard, Esq.	8	1 2	150	..	28·95	165	121
D Parkstone (St. Osmund's Road)	A. D. Stables, Esq.	5	1 3	60	32·2	31·20	161	124
D Parkstone (The Laurels)	J. N. Blanchard, Esq.	5	1 2	115	..	28·47	174	122
D Branksome (Leicester Road)	H. Fayle, Esq.	5	1 0	130	..	29·72	173	126
d Branksome (Bourne Valley)	P. G. G. Moon, Esq.	8	1 3	84	30·0	28·84	..	115
D Branksome (Alderney Res.)	P. G. G. Moon, Esq.	8	1 3	213	..	31·20	190	129
D Broadstone (Sewage Works)	T. Wicks, Esq.	5	1 0	26	29·2	27·77	172	120
D Lyme Regis (Horn Bridge)	E. T. Stoward, Esq.	5	1 0	83	33·2	37·71	177	128
D Lyme Regis (Rotherfield)	Rev. E. J. Synge	5	1 0	145	34·3	37·22	197	131
D Lyme Regis (Overton)	C. Wanklyn, Esq.	5	0 10	400	30·9	36·82	233	135
D Bridport (Coneygar)	Bridport Waterworks Co.	5	1 0	110	32·9	31·15	171	124
D Bridport (Symondsbury)	P. G. Fry, Esq.	5	1 0	83	..	32·44	169	122
D Tolpuddle Parsonage	Rev. Harold R. Long	5	1 0	100	32·9	33·44	182	131
D Puddletown Vicarage	Rev. Canon A. L. Helps	5	4 6	200	35·8	36·93?	164	136
D Bere Regis (Barrow Hill)	A. E. Lucas, Esq.	5	1 0	120	32·9	28·55	164	118
D Bere Regis (Bloxworth House)	F. G. A. Lane, Esq.	5	1 6	118	33·7	31·75	164	127
D Broadstone (Grange Road)	E. Nimmo, Esq.	5	1 0	160	..	30·14	176	122

† Formerly called Broadwindsor, Blackdown.

DIVISION V—SOUTH-WESTERN COUNTIES—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Rain-gauge: Average Rainfall.	1932. Rainfall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
DORSETSHIRE—(*con.*)		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
3.—FROME & C.—(*con.*)								
D Wynford House	Lt.-Col.LordWynford,D.S.O.	5	1 0	410	43·5	44·09	204	139
D Netherbury (The Chantry)	Lt.-Col. H. L. Kitson	5	1 0	150	35·2	39·82	188	137
D Beaminster (Farrs)	Fiennes Trotman, Esq.	5	1 0	183	37·6	41·21	196	129
D Minterne	Col. The Lord Digby, D.S.O.	5	1 0	800	..	37·59	203	142
4.—STOUR. 388 sq. mi.								
D Kinson (Eglinton)	W. C. Keevil, Esq.	5	1 6	45	33·2	33·38	191	132
D Wimborne (Corfe Mullen W.W.)	G. V. Sparrow, Esq., C.E.	5	1 0	81	32·9	30·32	157	125
D Wimborne (Corfe Mullen, For. Hill)	E. Philip Belben, Esq.	8	1 0	300	32·5	34·82	158	140
D Winterbourne Whitchurch Vic.	Rev. H. H. Tilney Bassett.	8	1 0	240	35·8	35·90	160	125
D Sturminster Marshall	F. Hewitt, Esq.	8	1 0	85	32·6	30·61	172	127
D Wimborne (Stapehill)	W. J. Marchant, Esq.	5	1 0	95	..	31·44	175	131
D Wimborne (Walsford Bridge P.S.)	P. G. G. Moon, Esq.	8	1 3	70	..	31·10	175	139
D Wimborne (Melbury Lodge)	Rev. W. S. Clarke	5	1 6	150	..	31·08	163	126
D Wimborne (Codford House)	G. H. Batterbury, Esq., M.D.	5	0 11	69	34·5	28·59	194	124
D Wimborne (Uplands)	E. Percy Sugden, Esq.	5	0 10	..	..	29·58	171	124
D Blandford (Field's Oak)	Lt.-Col. H. S. Woodhouse	5	1 0	..	34·4	35·08	184	128
D Blandford (White Cliff St.)	E. Westcott, Esq.	5	1 0	152	..	33·90	170	124
D Blandford (King's Road)	D. Blanchard .Esq.	5	1 0	195	..	33·34	178	125
D Blandford (Bryanston Gdns.)	Mr. J. Jaques	5	1 0	185	..	37·14	172	137
D Blandford (Letton)	Brig.-Gen. B. F. B. Stuart, C.M.G.	8	1 8	240	..	32·37	155	121
D Glanville's Wootton (Manor Ho.)	H. B. Debenham, Esq.	5	0 9	350	35·2	36·37	160	130
D Holwell (Westrow House)	Miss H. B. Warry	5	1 0	252	34·4	35·18	162	124
D Wimborne St. Giles (St. Giles Ho.)	The Earl of Shaftesbury, K.P.	5	1 0	165	33·4	32·97	157	118
D Gussage St. Michael Manor	Mrs. Good	5	1 4	200	33·3	32·18	176	124
D Childe Okeford Manor	J. H. L. Glasbrook, Esq.	5	1 0	250	..	34·16	168	125
D Iwerne Minster (Preston House)	Major H. W. Aston	5	1 0	220	33·2	32·65	162	122
D Iwerne Minster Vicarage	Rev. R. A. Bond	5	1 3	234	..	31·68	172	122
D Sturminster Newton	Louis Dawes, Esq.	5	1 0	225	..	31·05	165	127
d Fontmell Magna (Glebe Cottage)	Dr. J. Appleyard	5	1 0	300	..	31·36	..	111
D Stalbridge School	W. Lovell, Esq.	5	0 8	268	..	33·04	176	122
Pentridge (Cobley)	F. B. Eastwood, Esq.	5	1 0	500	..	30·63	..	..
D Cann	Miss G. A. Macdonell	5	1 0	600	..	28·30	176	123
D Fifehead Magdalen	H. Wells, Esq.	5	1 0	500	..	32·93	169	124
D Shaftesbury	The Headmaster	5	1 0	722	32·5	27·84	163	123
5.—EAST AVON. 12 sq. mi.								
SOUTH DEVONSHIRE. (Area, 1,707 sq. mi.)								
1.—PARRETT. 7 sq. mi.								
2.—TAMAR & C. 395 sq. mi.								
d Plymouth (Boveysand Lodge)	Rev. J. F. Case	5	1 6	75	34·1	36·38	..	141
D§Plymouth (Mt. Batten) (+A)	The Meteorological Office.	8	1 0	82	..	35·24	177	128
D Plymouth (The Hoe) (+A)	H. Victor Prigg, Esq., C.E.	8	1 0	117	36·7	42·31	184	141
D Plymouth (Drake's Reservoir)	F. Howarth, Esq., C.E.	5	1 0	149	37·5	41·86	177	139
D Plymouth (Freedom Park) (+A)	H. Victor Prigg, Esq., C.E.	8	1 0	208	39·4	44·55	177	155
D Devonport (Admiralty House)	Commander-in-Chief	5	1 0	76	..	42·56	167	143
D Devonport (Rowdens Res.)	F. Howarth, Esq., C.E.	5	1 0	201	35·1	37·93	170	133
D Plymouth (Hartley Reservoir)	F. Howarth, Esq., C.E.	5	1 0	321	39·9	45·04	180	152
D Bickley (Roborough Reservoir)	F. Howarth, Esq., C.E.	5	1 0	548	46·2	54·87	202	156
D Lee Moor House	R. Martin, Esq.	8	1 0	900	62·4	71·87	220	188
D Roborough (Maristow Gdns.)	G. F. Hedger, Esq.	5	1 0	80	..	56·75	198	158
D Yelverton (Oakfield)	H. Edgcumbe, Esq.	5	1 0	535	51·8	63·15	214	169
D Sheepstor (Redstone)	F. Howarth, Esq., C.E.	5	1 0	760	59·0	64·46	222	170
D Sheepstor (Burrator)	F. Howarth, Esq., C.E.	5	1 0	755	59·1	64·35	222	174
D Sheepstor (Head Weir)	F. Howarth, Esq., C.E.	5	1 0	720	57·0	64·81	222	169
D Dousland Reservoir	F. Howarth, Esq., C.E.	5	1 0	721	51·8	63·53	215	173
M Dartmoor (Deancombe Farm)	F. Howarth, Esq., C.E.	5	1 0	807	..	67·39	..	..
D Dartmoor (Lowery)	F. Howarth, Esq., C.E.	5	1 0	899	..	53·02	222	165
M Dartmoor (Leather Tor Farm)	F. Howarth, Esq., C.E.	5	1 0	910	59·0	65·33	..	..
M Dartmoor (Siward's Cross)	F. Howarth, Esq., C.E.	5	1 0	1074	..	67·79	..	..
D Whitchurch (Grenofen)	H. Chichester, Esq.	5	1 2	325	46·1	54·07	218	170

§ Exposure not orthodox.

DIVISION V—SOUTH-WESTERN COUNTIES—(*con.*).

	STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1932. Rainfall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
	SOUTH DEVONSHIRE—(*con.*)		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
	2.—TAMAR & C.—(*con.*)								
D	Whitchurch (Langstone)	F. J. R. Coleridge, Esq.	5	1 0	700	51·4	62·79	188	164
D	Whitchurch (Holwell)	F. C. Radcliffe, Esq.	5	1 2	500	..	55·68	205	170
D	Tavistock	W. J. Monk, Esq.	5	1 0	458	47·6	54·88	204	161
D	Horrabridge (Furzetor)	Col. M. C. Collier	8	0 11	550	..	63·59	220	179
D	Tavistock (The Library)	The Librarian	8	1 8	282	44·8	50·39	197	164
M	Dartmoor (Double Waters)	F. Howarth, Esq., C.E.	5	1 0	1165	64·2	77·15	..	..
M	Dartmoor (N. Hessary Tor)	F. Howarth, Esq., C.E.	5	1 0	1398	..	68·60	..	..
D	Mary-Tavy (Blackdown)	H. K. G. Rogers, Esq.	5	1 0	855	5	64·65	210	178
D	Lifton (Kelly House)	Rev. Maitland Kelly	8	2 6	450	43·8	50·89	186	164
	N. Brentor (Langstone)	H. Curtis Gallop, Esq.	5	..	700	..	53·62	..	..
D	Coryton Manor	R. L. Newman, Esq.	5	1 2	450	43·5	47·67	198	155
D	Lifton (Tulip Trees)	R. H. Arundell, Esq.	5	1 2	350	..	52·77	236	156
D	Lew Down (Coombe Trenchard)	H. M. Sperling, Esq.	5	1 0	450	..	48·96	195	151
D	Lydford (Naseby)	Col. H. E. Molesworth, C.M.G., D.S.O.	5	1 0	950	..	57·78	202	163
D	Werrington Park	Mr. R. M. Gregory	5	4 8	600	..	49·83	202	158
D	Ashwater Rectory	Rev. G. D. Melhuish	5	1 0	500	43·0	47·32	182	154
D	Holsworthy (Bodmeyric)	W. J. Rogers, Esq.	5	2 1	450	..	45·54	200	164
	3.—ERM & C. 217 sq. mi.								
D	Salcombe (Blackstone Lodge)	W. J. Shaw, Esq.	5	1 6	280	34·8	39·83	178	145
D	Salcombe	The Borough Surveyor	5	1 0	39	34·7	40·64	156	142
D	Salcombe (Fairhaven)	C. Shillitoe, Esq.	5	1 0	150	..	37·68	170	131
D	West Alvington	Rev. H. C. B. Lethbridge	5	1 0	180	..	43·26	181	147
D	Kingsbridge	W. N. Patey, Esq.	5	1 6	150	..	44·56	167	145
D	Stoke Fleming (Windward)	Miss E. L. Garrett	5	1 0	380	..	55·57	172	147
D	Yealmpton (Torre)	Miss M. Wimbush	5	0 11	100	35·5	41·55	196	149
D	Yealmpton (West Park)	D. M. Yonge, Esq.	5	1 3	150	..	43·50	176	140
D	Ermington (Strode)	Capt. H. Gore Hawker	5	1 0	75	41·4	47·09	205	154
D	Ivybridge (Filham House)	H. Alger, Esq.	5	1 0	160	46·0	49·32	189	155
D	Wrangaton (Plymouth M. Hos.)	H. Victor Prigg, Esq., C.E.	5	1 0	607	54·2	51·18	179	152
D	South Brent (Beechfield)	Miss Kingwell	5	1 0	500	61·0	69·63	201	170
D	South Brent (Badworthy)	Miss D. B. Latham	5	1 2	550	64·4	83·38?	192	169
	Cornwood (Yealm Head No. 5)	W. H. Thompson, Esq., C.E.	5	1 0	540	..	68·62	194	174
	Cornwood (Yealm Head No. 1)	W. H. Thompson, Esq., C.E.	5	1 0	943	..	81·15	..	..
§	Cornwood (Yealm Head No. 2)	W. H. Thompson, Esq., C.E.	5	1 0	1305	..	76·41	..	..
	Cornwood (Yealm Head No. 4)	W. H. Thompson, Esq., C.E.	5	1 0	1415	..	82·01	..	..
§	Cornwood (Yealm Head No. 3)	W. H. Thompson, Esq., C.E.	5	1 0	1416	..	75·42	..	..
	4.—DART. 197 sq. mi.								
D	Dartmouth (Ridge Hill)	Dr. H. J. Campbell	5	1 0	120	40·3	49·74	186	144
d	Dartmouth (Naval College)	The Curator, Science Lab.	8	1 0	220	..	49·77	..	..
D	Churston Ferrers (Greenway)	Mrs. C. Williams	5	0 9	..	40·8	49·38	163	141
D	Brixham (Combe Bank)	Sir H. Clayton, Bt.	5	6 6	115	36·7	42·54	187	127
D	Waddeton Court	Sir A. L. Goodson, Bart.	5	1 0	175	40·5	45·45	161	132
D	Stoke Gabriel (Maisonnette)	Edward Stobart, Esq.	5	1 0	100	42·8	52·57	182	148
d	Totnes (Dundridge Gardens)	Mr. C. K. Pugsley	5	1 0	250	48·3	55·26	..	..
D	Paignton Vicarage	Rev. Preb. H. M. Drake	5	1 0	42	35·4	43·17	170	130
D	Paignton (Victoria Park)	The Town Clerk	8	1 1	12	..	42·35	171	133
D	Paignton (Claylands)	G. M. Rosling, Esq.	8	1 2	150	35·7	43·72	181	129
D	Totnes (Walrond House)	H. Hurman, Esq.	5	1 2	40	41·8	52·75	165	138
D	Totnes (Dartington Hall)	J. B. E. Patterson, Esq.	5	1 0	175	..	48·61	182	145
D	Totnes (Staverton)	J. A. Devenish, Esq.	5	0 11	50	..	48·94	169	141
D	Ipplepen Vicarage	Rev. R. D. Cooke	5	1 0	266	36·8	43·23	163	140
D	Holne (Church Park Cottage)	L. W. Frost, Esq.	5	1 6	620	59·8	74·48	210	161
D	Ashburton (West St.)	W. T. Hannaford, Esq.	5	1 0	260	..	57·05	200	150
D	Ashburton (Hele House)	E. M. Dowson, Esq.	5	1 0	350	49·6	57·89	201	152
D	Dartmoor (Fox Tor)	E. Rowlands, Esq., C.E.	8	0 7	1160	..	76·82	203	184
D	Dartmoor (Swincombe)	E. Rowlands, Esq., C.E.	8	0 7	1120	..	88·60	203	183
D	Princetown (Huccaby House)	Lt.-Col. H. H. Joll, D.S.O.	5	1 0	900	54·6	66·30	204	160
D	Princetown (Wydemeet)	Colin M. E. May, Esq.	5	1 0	900	58·2	75·38	204	173
D	Princetown (H.M. Prison) (+A)	The Governor	5	1 0	1359	81·9	99·29	225	189
W	Dartmoor (Cowsic Valley) *new g.*	F. Howarth, Esq., C.E.	5	1 0	1323	..	89·80	..	..

§ Gauge over-exposed on moor.

DIVISION V—SOUTH-WESTERN COUNTIES—(*con.*).

	STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Aver-age Rain-fall.	1932. Rain-fall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
	SOUTH DEVONSHIRE—(*con.*)		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
	4.—DART—(*con.*)								
M	Dartmoor (White Tor) *new g.*	F. Howarth, Esq., C.E.	5	1 0	1439	..	84·30	..	..
d	Postbridge (Archerton)	Miss E. M. Bennett	5	1 0	1320	..	(86·08)	..	..
M	Dartmoor (Devil's Tor) *new g.*	F. Howarth, Esq., C.E.	5	1 0	1570	..	79·80	..	..
M	Dartmoor (Cowsic Head) *new g.*	F. Howarth, Esq., C.E.	5	1 0	1465	..	86·70	..	..
D	Postbridge (Warren House Inn)	S. C. Chapman, Esq., C.E.	5	1 0	1400	..	73·55	196	170
	5.—TEIGN. 209 sq. mi.								
D	Torquay (Middle Lincombe Rd.)	Miss L. M. Brown	5	1 0	250	30·9	37·14	184	133
D	Torquay (Abbey Park)	The Town Clerk	5	1 0	27	33·0	37·79	171	124
D	Torquay (Abbey Road)	Henry Brown, Esq	5	1 0	125	34·3	40·92	170	123
D	Bickington (Higher Goodstone)	Lt.-Com. W. A. A. Bolitho, R.N.	5	1 0	400	..	49·17	180	144
D	Newton Abbot (Seale Hayne Coll.)	The Principal	5	1 0	375	34·7	39·12	179	131
D	Teignmouth (Woodlands)	S. B. Harris, Esq.	8	1 2	98	31·5	34·47	167	111
d	Teignmouth (Fontigary)	John F. Caley, Esq.	5	1 0	260	30·1	35·07	..	..
D	Teignmouth (Landscore Road)	Dr. E. E. Moore	5	1 0	143	31·8	35·14	167	114
D	Teignmouth (Den Gardens)	G. F. Rossiter, Esq	8	1 0	20	31·8	35·52	158	114
D	Teignmouth (Hazledown Res.)	G. F. Rossiter, Esq.	8	1 0	425	32·4	38·85	169	128
D	Teignmouth (Shaldon Res.)	G. F. Rossiter, Esq.	5	1 0	213	34·9	41·99	163	129
D	Teignmouth (Landscore Res.)	G. F. Rossiter, Esq.	8	1 0	133	33·2	37·37	170	119
D	Ilsington	Miss E. Willcocks	5	1 0	650	47·8	55·10	188	150
D	Bovey Tracey (Whiddon)	G. F. Wright, Esq.	5	1 2	150	..	46·54	176	134
D	Dawlish (Luscombe Castle)	Peter Hoare, Esq.	8	1 2	175	35·9	43·97	206	132
D	Bovey Tracey (Hedgebarton)	S. C. Chapman, Esq., C.E.	5	1 6	1137	59·2	60·55	199	162
D	Bovey Tracey (Edymead)	Rev. W. V. Vickers	5	1 9	200	..	44·92	173	132
W	Ashcombe (Thorns Reservoir)	S. F. C. Churchward, Esq.	5	1 0	550	36·4	42·63	..	..
D	Hennock (Hazlewood)	R. P. Kitson, Esq.	5	1 0	650	..	44·94	165	149
D	Moretonhampstead (Bullaton)	S. C. Chapman, Esq., C.E.	8	1 0	928	42·2	51·85	211	148
D	Moretonhampstead (Mardon)	S. C. Chapman, Esq., C.E.	8	1 0	837	40·6	46·23	210	150
D	North Bovey (Manor House)	Mr. J. T. Laurence	5	1 0	700	49·0	52·28	205	165
	Chagford (Hurston Ridge)	S. C. Chapman, Esq., C.E.	5	1 0	1350	..	(77·95)	..	..
M	Chagford (Toms Hill)	S. C. Chapman, Esq., C.E.	5	1 6	1500	..	81·84	..	..
M	Chagford (Whiteridge)	S. C. Chapman, Esq., C.E.	5	1 6	1650	..	83·84	..	..
M	Chagford (Hemstone)	S. C. Chapman, Esq., C.E.	5	1 6	1350	..	80·46	..	..
D	Christow (Kennick) No. 1	S. C. Chapman, Esq., C.E.	8	1 0	836	41·6	47·82	206	147
D	Christow (Kennick) No. 2	S. C. Chapman, Esq., C.E.	8	1 0	860	..	46·40	206	145
D	Chagford (Fernworthy)	S. C. Chapman, Esq., C.E.	5	1 0	1150	..	70·74	216	161
D	Chagford (Metherall)	S. C. Chapman, Esq., C.E.	8	1 0	1150	..	66·21	216	160
M	Chagford (Thornworthy Down)	S. C. Chapman, Esq., C.E.	5	1 6	1250	..	75·38	..	..
	Chagford (Crownhall)	S. C. Chapman, Esq., C.E.	5	1 0	1320	..	(75·49)	..	..
D	Moretonhampstead (Stinhall)	S. C. Chapman, Esq., C.E.	5	1 6	844	48·9	52·74	180	149
M	Moretonhampstead (Blckngstne)	S. C. Chapman, Esq., C.E.	8	1 0	1158	42·5	42·51	..	..
D	Christow (Laployd)	S. C. Chapman, Esq., C.E.	5	1 6	1041	41·6	50·43	205	150
D	Chagford (Thornworthy)	Miss W. H. Varwell	5	0 6	1175	59·6	74·29	213	168
d	Chagford (Dartmoor Sanatorium)	The Secretary	5	1 6	750	50·3	55·73	..	140
D	Chagford (Huish)	Col. P. Hart Dyke, D.S.O.	5	1 0	595	..	51·71	207	162
	6.—EXE. 445 sq. mi.								
	Exmouth (Colerstraive)	J. Barber, Esq.*	5	0 0	100	..	33·22	..	..
D	Exmouth (Douglas Avenue)	S. Pope, Esq.	5	0 10	80	28·7	32·26	173	118
D	Exmouth (Waterworks Road)	S. Hutton, Esq., C.E.	5	1 0	195	28·6	31·30	160	118
D	Exmouth (Filters, Salterton Rd.)	S. Hutton, Esq., C.E.	8	8 6	195	31·5	33·64	183	124
D	Exmouth (Filters, Capel Lane)	S. Hutton, Esq., C.E.	5	8 0	240	30·3	34·07	178	128
D	Starcross	H. Falkner, Esq.	5	1 0	20	32·1	35·94	172	119
d	Lympstone (Manor House)	Miss L. Shelden	5	0 11	54	30·8	33·70	..	113
d	Lympstone (Mussel Purifn. Stn.)	The Director	8	1 5	4	29·6	32·57	..	..

* Per *Devon and Exeter Gazette.*

DIVISION V—SOUTH-WESTERN COUNTIES—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1932. Rainfall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
SOUTH DEVONSHIRE—(*con.*)		*in.*	*ft. in.*	*ft.*	*in.*			
6.—EXE—(*con.*)								
D Woodbury (Oakhayes)	E. S. Chattock, Esq.	5	1 0	200	..	35·63	170	131
d Woodbury (Little Orchard)	Miss J. Waters	5	1 0	200	..	34·84	..	..
d Topsham (Altamira)	Mrs. Wimbush	5	0 9	120	29·3	32·26	..	..
D Exminster (Trood House)	Lt.-Col. T. L. Ormiston	5	1 0	75	..	35·19	185	122
D Exeter (Hatfield, Longdown)	C. Holman, Esq.	5	0 10	450	33·8	37·29	153	121
d Aylesbeare (Rosamondford)	A. T. Loram, Esq.	5	0 9	220	31·4	33·05	..	..
D Exeter (Devon and Exeter Inst.)	Miss D. Drake	5	13 7	155	30·5	33·95	166	125
D Exeter (The Close)	The Ven. Arch. T. N. Leeke.	5	1 2	150	..	35·23	179	112
Exeter (The Close)	Rev. Canon D. McLaren	5	0 9	100	..	34·28	160	132
D Tedburn St. Mary Rectory	Rev. H. Rusbridger	5	0 10	400	32·7	34·53	218	143
d Rockbeare Manor	Lt.-Col. H. Spencer Follett	5	0 10	180	30·9	31·66	..	122
D Poltimore Rectory	Rev. Dr. Hopkinson	5	1 0	80	..	35·05	183	141
d Brampford Speke	E. E. Stevens, Esq.	5	1 0	170	..	30·50	..	127
D Crediton (Ship Hotel)	R. Stanley Clarke, Esq.	8	1 2	200	33·1	31·99	183	134
d Crediton (U.D.C.)	The Surveyor	5	1 3	198	..	32·17	..	133
d Crediton (Haywards School)	The Headmaster	5	1 0	186	..	33·73	211	138
D Silverton (Killerton)	Rt. Hon. Sir F. Dyke Acland, Bt.	5	1 0	159	30·6	34·99	173	129
D Silverton	G. B. Savery, Esq.	5	1 0	260	..	36·53	205	135
D Crediton (Okefield)	Seymour F. Pope, Esq.	5	1 0	325	32·2	32·03	200	135
D Copplestone (Copplestone House)	Miss M. Pope	5	0 11	315	34·1	34·82	198	135
D Bradninch (Dunmore House)	Miss H. R. Hepburn	5	1 0	300	33·7	38·00	182	142
D Cullompton	Murray T. Foster, Esq.	5	1 0	202	35·3	38·00	182	141
D Cullompton Court	Dr. E. S. Cardell	5	1 0	200	..	37·34	195	134
D Kentisbeare	A. E. Painter, Esq.	5	1 0	304	..	34·67	178	129
D Tiverton (St. Aubyn's Park)	F. C. Fox Strangways, Esq.	5	1 0	394	39·4	39·52	187	138
D Tiverton (Halberton)	Miss M. G. Izat	5	1 0	240	40·1	47·62	227	147
D Tiverton (Blundell's School)	E. G. Peirce, Esq.	5	1 6	270	..	38·30	187	131
d Hemyock Place	N. J. Hitchings, Esq.	5	3 0	850	..	40·18	..	133
D Tiverton (Washfield Rectory)	Rev. A. Ellison	5	1 0	500	..	43·17	185	149
D Bampton (Stuckeridge)	Brig-Gen. J. C. Livingstone-Learmonth, C.M.G.	5	1 3	750	..	41·43	184	140
D Bampton (Castle Grove)	Major B. M. Read	5	1 4	272	..	46·33	171	143
D Morebath Manor	C. H. W. Malet, Esq.	5	1 0	600	..	49·98	194	161
7.—AXE & C. 237 sq. mi.								
d Budleigh Salterton (West Ways)	J. Hartree, Esq.	5	1 0	140	..	33·95	..	123
D Budleigh Salterton (Braywick)	E. Fisher, Esq.	5	1 0	110	..	33·27	157	116
D Budleigh Salterton (Tidwell Ho.)	Mrs. J. H. Foster	5	1 0	100	..	33·00	169	123
D Budleigh Salterton (Knowle Ho.)	Mrs. Pepys	5	1 4	230	..	35·48	155	136
Budleigh Salterton (Squabmoor)	S. Hutton, Esq., C.E.	5	1 0	267	31·9	38·06	..	..
East Budleigh (Bicton Common)	S. Hutton, Esq., C.E.	5	1 0	300	32·2	37·53	..	..
D East Budleigh (Bicton Gardens)	Mr. E. H. High	5	1 0	90	31·4	34·95	174	128
D Salcombe Regis (Steephill)	Burleigh D. Kilburn, Esq.	5	1 0	150	..	33·08	166	120
D Sidmouth (U.D.C.)	The Borough Surveyor	5	1 0	25	..	32·00	167	118
D Sidmouth (Home Orchard)	S. Horsley, Esq.,	5	1 0	100	..	34·85	172	123
d Sidmouth (Winslade Cottage)	Miss G. Collins, M.B.E.	5	1 0	145	34·1	34·47	..	..
D Sidmouth (Sidmount)	Miss C. M. Radford	5	1 0	149	32·4	34·76	167	131
D Sidmouth (Sidmount)	Miss C. M. Radford	5	1 0	186	32·5	34·96	167	126
D Seaton (Townsend)	Lt.-Col. H. Anderson-Neville	5	1 0	43	..	34·86	156	122
D Seaton (Withylake)	T. F. Tracy, Esq.	5	1 0	200	..	35·31	169	123
D Lyme Regis (Pinhay)	Mr. W. F. Shillabeer	5	1 11	465	34·9	35·83	179	126
D Ottery St. Mary (Broad Oak)	Miss Tallant	5	1 2	350	..	40·66	175	130
D Ottery St. Mary (Little Close)	P. M. Miller, Esq.	5	0 9	250	..	36·60	165	127
Ottery St. Mary (East Hayes)	T. A. B. Pares, Esq.	8	1 0	550	..	40·03	..	123
D Ottery St. Mary (West Hill)	B. Stansbury, Esq.	5	1 6	340	34·2	40·54	189	134
D Ottery St. Mary (Broad Street)	H. D. Badcock, Esq.	5	1 0	170	36·3	38·29	174	136
D Axminster (Lea Combe House)	Major A. C. F. Luttrell	5	1 6	170	38·4	39·27	172	139
D Honiton (Feniton Court)	Col. A. D. Acland, C.B.E.	8	1 0	235	..	39·09	184	149
D Honiton (Beech Grove)	Major A. T. Baker	5	0 10	340	38·5	41·60	182	140

DIVISION V—SOUTH-WESTERN COUNTIES—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1932. Rainfall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
SOUTH DEVONSHIRE—(*con.*)		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
7.—AXE—(*con.*)								
D Axminster (Coaxdon Hall)	Dr. Cecil Woodhouse	5	1 0	165	37·5	36·60	176	130
D Membury (Yarty House)	Major W. H. Wilkin	5	1 0	245	..	39·57	180	133
D Honiton (Allington)	Mrs. J. W. Saunders	8	1 6	150	..	36·29	163	126
D Membury (Green Down)	James Lee, Esq.	5	1 0	500	38·4	44·45	167	133
D Stockland (Post Office)	James Clarke, Esq.	5	1 6	350	40·5	45·38	175	136
NORTH DEVONSHIRE. (Area, 898 sq. mi.)								
1.—NORTH COAST STREAMS. 77 sq. mi.								
D Croyde (Baggy Point)	Miss C. M. Hyde	5	1 0	35	..	32·93	178	125
D Woolacombe (Hotel Grounds)	Miss Chichester	5	1 0	59	..	31·03	144	124
D Ilfracombe (Reservoir)	A. J. Westaway, Esq.	5	1 0	395	46·2	51·26	201	159
D Combe Martin Rectory	Rev. R. Seymour	5	1 0	30	..	52·69	204	140
D Ilfracombe (Langleigh)	H. B. Holland, Esq.	5	1 0	127	41·8	43·98	190	142
D Ilfracombe (Bowling Green)	A. J. Westaway, Esq.	5	1 0	25	..	40·71	170	131
2.—TAW. 442 sq. mi.								
D Okehampton (South Zeal)	Capt. S. T. Dean-Pitt	5	1 0	750	45·5	52·54	189	162
Spreyton (Lynderies)	Lt.-Col. J. Simpson	5	1 0	660	36·9	39·27	..	..
D Witheridge	Rev. J. A. S. Castlehow	5	1 0	600	39·5	40·05	202	152
D Meshaw	Rev. H. H. Breton	8	1 0	600	..	49·56	224	177
Chittlehamholt	Rev. H. Carter	5	1 0	430	..	37·67	168	..
d East Anstey Rectory	Rev. J. S. Payne	5	0 9	750	..	48·71	(185)	(160)
D East Anstey (Rhyll Manor)	Mrs. E. L. Hancock	5	1 0	850	..	52·77	187	169
D Filleigh (Castle Hill Gardens)	The Countess Fortescue	5	1 0	317	43·1	42·88	192	152
Tawstock Court	Sir Basil Peto, Bart.	8	1 0	150	39·7	39·52	..	..
D Molland (Green Cot)	S. J. Case, Esq.	5	1 0	674	50·5	49·61	213	163
D Barnstaple (N. Dev. Athenæum)	The Librarian	8	1 0	25	36·6	35·85	214	150
D Barnstaple (Hele Manor Park)	M. B. B. Heath, Esq.	6	1 0	130	35·1	38·54	191	141
D Barnstaple (Fort Hill)	Miss E. F. Sterry	5	1 0	197	38·3	38·58	209	159
D High Bray Rectory	Rev. C. F. Ford	5	1 1	700	..	50·97	198	156
D Barnstaple (Westaway)	Major O. L. Trechmann	5	1 0	140	39·1	39·88	187	141
Goodleigh (Willesleigh House)	Lt.-Col. Montague H. Hall	5	1 0	375	40·0	39·08	188	151
D Goodleigh (Gunn Cottage)	Major H. Sandford Claye	5	1 0	720	43·4	43·54	201	153
D Braunton	A. J. Besley, Esq.	5	1 0	145	33·5	35·74	186	140
D Arlington Court	Miss Chichester	5	1 0	613	53·8	56·06	208	168
D Challacombe	A. J. Westaway, Esq.	5	1 0	815	62·2	69·94	212	173
D Georgeham (Spreacombe Manor)	A. Leigh Barker, Esq.	5	0 9	340	38·1	41·20	191	149
D Kentisbury	Noel Irwin, Esq. †	5	1 0	557	..	53·83	210	152
3.—TORRIDGE. 342 sq. mi.								
Dartmoor (Cranmere Pool)	S. R. Harry, Esq., for M.O.	5	1 0	1845	..	86·80	..	..
Dartmoor (Newbridge)	E. P. Burd, Esq., for M.O.	5	1 0	1500	..	71·60	..	..
D Okehampton (Uplands)	E. P. Burd, Esq.	5	1 0	700	51·4	56·88	205	154
d Monkokehampton	Rev. R. Y. Holmes	5	0 6	245	..	38·73	183	151
Dolton (Hilliers)	A. Smythies, Esq.	5	1 3	380	37·9	40·88	187	143
D Torrington (Enfield)	G. M. Doe, Esq.	5	1 0	337	39·3	34·01	183	139
D Parkham (Melbury Moor)	F. Harding, Esq.	5	1 0	630	50·2	49·76	188	160
D Parkham (Melbury Reservoir)	F. Harding, Esq.	5	1 0	517	52·8	53·85	188	161
D Buckland Brewer (The Cottage)	Miss B. G. Rogers	5	0 11	469	45·0	45·03	200	158
D Littleham (Orleigh Court)	W. H. Rogers, Esq.	5	1 0	260	48·0	47·33	191	156
D Landcross (South Close)	C. R. C. Hibbert, Esq.	5	1 0	100	35·6	39·30	190	125
D Bideford (Jennett's Res.)	Borough Surveyor	5	1 0	62	..	37·91	181	141
D Bideford (Gammaton Res.)	Borough Surveyor	5	1 0	350	..	36·23	182	146
Bideford (Webbery)	Mrs. C. E. Boyd	5	1 0	355	37·7	37·05	182	143
D Westleigh House	Rev. H. G. de C. Stevens Guille	5	1 0	187	35·6	35·74	193	143
d Westward Ho ! (Royal Golf Club)	Major A. Newton-King	5	1 6	10	32·3	34·80	..	136
4.—WEST COAST STREAMS. 32 sq. mi.								
D Hartland (Fosfelle)	R. P. Chope, Esq., B.A., J.P.	5	1 0	480	46·0	45·95	206	149
Clovelly Court	Mr. S. M. Wilson	5	0 11	360	51·2	44·29	..	..
5.—EXE. 5 sq. mi.								

† For Royal Meteorological Society.

DIVISION V—SOUTH-WESTERN COUNTIES—(*con.*).

	STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1932. Rainfall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
	CORNWALL. (Area, 1,363 sq. mi.)		*in.*	*ft. in.*	*ft.*	*in.*			
	1.—CAMEL & N.W. COAST STREAMS. 458 sq. mi.								
	Crowan (Boswyn Res.)	Camborne Water Co.*	..	..	511	*43·1*	45·25	175	141
D	Lelant	Mrs. Tyringham	5	1 3	50	44·4	45·68	181	143
D	Hayle (Gwythian Road)	Caldwell Harpur, Esq.	5	0 10	98	40·1	42·38	182	145
D	St. Ives (Halsetown Vicarage)	Rev. T. C. F. Barfett	5	1 0	328	..	45·76	209	154
D	St. Ives (Bussow Moor)	The Borough Surveyor	5	1 1	397	48·6	43·46	199	148
D	St. Ives (Cemetery)	The Borough Surveyor	5	1 1	141	..	46·16	188	142
D	Camborne	Miss I. Osborne	5	1 9	402	44·1	47·05	160	133
D	Camborne (Uplands)	H. G. Rix, Esq.	5	1 0	210	40·8	40·10	193	148
D	St. Ives (Liscoruah)	Col. J. M. Findlay, D.S.O.*	5	0 9	300	47·3	41·20	184	146
D	Redruth (Trewirgie)	A. P. Jenkin, Esq.	5	1 0	397	45·3	45·62	203	150
M	Redruth (Green Lane Nurseries)	F. Sanders, Esq.	5	1 0	270	*41·2*	45·94	..	..
D	St. Agnes (Church Town) *new g.*	Dr. W. C. Whitworth	5	1 0	318	36·5	42·07	186	143
	Newquay (Reservoir)	Dr. C. C. Vigurs	5	1 0	210	33·4	36·22	..	..
D	Newquay (Mount Wise) No. 1	Dr. C. C. Vigurs	5	1 0	190	33·2	34·39	189	137
D	Bodmin (Polgwin)	H. D. Foster, Esq.	5	1 0	400	47·7	46·87	206	162
D	Bodmin (Castle Hill House)	Mrs. Leslie	5	1 0	484	49·4	47·34	232	179
D	St. Mawgan (Trenance)	Trenance Ltd.	5	1 6	250	..	34·44	172	130
D	Helland (Tredethy)	Capt. G. Wilson, R.N.	5	0 10	440	42·7	44·39	204	162
D	Little Petherick (St. Petroc Minor)	Miss A. T. Skilbeck	5	1 2	150	32·0	36·92	234	151
	Wadebridge (Bryn)	Mrs. K. D. Beare	5	1 6	50	38·7	39·26	..	..
D	Wadebridge (Trewornan)	Brig.-Gen. L. J. Hext, C.M.G.	5	1 0	30	36·0	38·14	198	152
D	St. Kew (Skisdon)	Mrs. Braddon	5	1 0	100	40·3	43·81	215	154
	St. Minver (Trebetherick)	A. T. Roseveare, Esq.	8	1 0	70	32·0	33·87	..	..
W	St. Minver (Lundy Bay)	W. Poynter Adams, Esq.	5	1 0	240	..	39·41	..	..
	Camelford (Roughtor)	A. W. Patten, Esq.*	..	..	940	..	67·08	218	174
D	Camelford (Stannon Clay Wks.)	English China Clays, Ltd.	8	2 0	800	54·8	59·19	210	180
D	Bude (School House)	Karl Durston, Esq.	5	1 0	50	33·4	34·54	169	135
D	Bude (Golf Club)	The Secretary	5	1 0	70	..	33·33	163	130
	Bude (Trelana)	G. A. C. Thynne, Esq.	5	2 0	200	32·7	36·56	157	139
	2.—FOWEY & S.E. COAST STREAMS. 620 sq. mi.								
M	Lizard (Tregullas House)	A. P. Jenkin, Esq.*	5	1 0	244	35·2	35·90	..	..
D	Ruan Minor	Miss H. F. Shepherd	5	1 0	210	36·0	37·41	183	141
	Mullion (Council School)	E. J. Perry, Esq.	5	1 1	208	37·4	(38·88)	198	137
D	Mullion	H. H. Penrose, Esq.	5	0 10	178	35·3	38·79	173	134
D	Porthcurno	Eastern Telegraph Co.	5	1 0	150	36·2	35·91	198	138
	St. Keverne (Lanarth)	P. D. Williams, Esq.	5	1 3	310	43·7	44·29	205	151
D	Bosahan (St. Martin-in-Meneage)	Hon. Mrs. Colborne Vivian	5	1 3	180	..	45·45	166	143
	Helston (Tenderah)	J. W. Tyacke, Esq.	5	1 7	210	42·0	44·08	189	149
D	Constantine (Pons-a-Verran)	A. Mayne, Esq.	8	1 0	60	41·2	41·54	201	151
D	Penzance (Trewidden)	Mrs. C. Williams	5	1 0	275	39·6	42·07	192	145
d	St. Michael's Mount	Lord St. Levan	..	..	50	43·2	36·98	..	133
D	Penzance (Morrab Gardens)	Urban District Council	5	1 0	55	40·9	44·33	193	150
D	Penzance (Trengwainton House)	Lt.-Col. E. H. W. Bolitho	8	1 2	400	46·4	47·08	201	154
D	Gulval (Co. Council Plot)	Cornwall County Council	5	1 0	20	41·5	42·74	184	141
D	Wendron (Ninemaidens)	W. E. Benney, Esq.*	5	0 10	700	..	47·73	192	154
D	Falmouth Observatory (+A)	Roy. Cornwall Poly. Soc.	5	1 0	167	43·6	44·83	187	135
D	Falmouth (Trefusis)	Lt.-Col. The Hon. H. W. F. Trefusis	5	1 3	200	39·5	39·19	182	132
d	Halwin Council Sch.	F. P. Jenkin, Esq.	5	1 6	540	..	48·15	..	..
D	Penryn (Ashfield)	J. G. Stephens, Esq.	5	1 0	95	42·2	44·62	198	136
	Penryn (Roskrow)	Mrs. E. Stephen*	..	..	550	49·8	51·36	185	149
M	Devoran	Lord Clifden*	5	1 0	120	41·8	41·99	..	..
	Devoran (Devoran House)	Rev. A. S. Rashleigh*	..	..	..	..	44·29	201	142
D	Gwennap (Trevince)	C. H. Beauchamp, Esq.	10	1 0	240	45·5	46·89	202	161
D	St. Day (Council School)	R. R. Blewett, Esq.	5	1 0	390	49·2	45·54	223	147
D	Truro (Killiow)	Miss E. F. A. Daubuz	5	1 0	250	41·5	40·20	187	136
	Tregoney (Trewarthenick)	P. A. Welman, Esq.*	6	0 10	200	..	41·66	..	..
D	Truro (Tregolls)	Miss C. L. Rashleigh	5	1 0	65	41·6	43·06	200	142
D	Truro W.W. (Lower Tregurrow)	W. J. Lean, Esq.	5	1 0	71	42·2	44·90	172	145
D	Mevagissey	C. Metcalfe, Esq.	5	1 0	100	42·3	42·55	190	141
D	Polperro	Mrs. F. H. Perrycoste	5	1 0	100	*39·2*	37·62	231	142
D	Fowey	Town Clerk	5	1 0	51	*34·7*	37·19	179	150
D	St. Austell (Charlestown Old Vic.)	C. A. Battiscombe, Esq.	5	4 0	204	*42·7*	42·57	184	149

* *Per* Cornwall Rainfall Association.

DIVISION V—SOUTH-WESTERN COUNTIES—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Aver-age Rain-fall.	1932. Rain-fall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
CORNWALL—(*con.*)		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
2.—FOWEY & S.E.—(*con.*)								
D St. Austell (Trevarna)	W. M. Coode, Esq.	5	1 0	300	45·8	48·59	196	158
D East Looe	W. D. Clague, Esq.	5	1 0	50	..	42·32	174	144
D Downderry (The Watch House)	Mrs. Sneyd	5	1 0	100	..	37·93	197	162
D Looe (Morval)	Capt. A. H. Tremayne, R.N.	5	1 0	150	46·1	47·68	192	152
D Lostwithiel (The Terrace)	R. Pease, Esq.	5	1 0	110	49·2	45·71	193	145
D St. Keyne (Locrenton)	Rear-Admi. R. Wykes-Sneyd	5	0 10	250	..	52·55	208	168
D Menheniot (Coldrenick)	Rev. F. E. Trelawny	5	1 0	301	47·1	47·22	163	142
D Liskeard (Penmilder)	Miss D. P. Foster	6	1 0	301	..	44·73	185	145
D Liskeard (Lewarne)	W. R. Rendall, Esq.	8	0 10	420	..	56·95	219	165
St. Cleer (Tregarric)	Col. J. D. A. Roberts	5	1 6	800	49·4	52·03	..	..
D Bolventor Vicarage	Rev. S. J. Pethick	5	1 0	845	67·6	71·48	229	185
3.—TAMAR & C. 279 sq. mi.								
D Devonport (Empacombe)	Miss M. C. Algate	5	2 6	20	36·8	41·70	187	142
D Devonport (Cremyll)	S. B. Wilcox, Esq.	5	1 4	25	36·3	37·04	186	146
D Torpoint (Trethill House)	Col. J. D. A. Roberts	5	1 6	200	34·5	37·02	178	131
Torpoint (Wilcove)	G. P. Jenkin, Esq.*	..	..	40	..	42·99	..	..
D§Ellbridge	The Horticultural Supndt.	5	1 0	200	..	48·12	192	151
D St. Mellion (Pentillie Castle)	W. T. Johnson, Esq.	5	1 0	150	..	47·99	190	147
Callington	D. H. Watkins, Esq.	5	0 9	525	..	50·07	..	..
d Stoke Climsland School	T. Oates, Esq.	5	5 0	458	..	+5·71	..	..
D Launceston (North Hill)	Miss M. E. Hale	8	1 0	475	..	60·46	220	166
D Launceston (Landue)	Miss S. E. Tregoning	5	0 11	225	42·5	44·74	215	154
D Launceston (Hexworthy)	R. B. Rogers, Esq.	5	1 0	270	42·1	45·13	204	143
D Launceston (Pendruccombe)	Miss L. C. Seccombe	5	1 0	469	..	47·70	188	147
Egloskerry (Tregeare)	The late E. G. B. Lethbridge, Esq.	5	1 6	575	43·1	(52·59)	..	..
D North Tamerton (Davies)	W. S. Bray, Esq.	5	1 0	390	..	42·84	190	151
4.—INSULAR.—Isles of Scilly. 6 sq. mi.								
D St. Mary's	The Meteorological Office	8	1 0	163	31·9	33·16	204	144
D Tresco Abbey	Maj. A. A. Dorrien Smith, D.S.O.	5	1 0	40	33·4	33·44	208	149
SOMERSETSHIRE. (Area, 1630 sq. mi.)								
1.—LOWER AVON. 300 sq. mi.								
D Wanstrow (The Manor Cottage)	P. E. B. Warburton, Esq.	5	1 0	465	37·7	36·60	167	128
D Shepton Mallet (Pondsmead)	R. A. Hobhouse, Esq.	8	1 0	710	44·9	53·13	180	148
D Frome W. W. (Egford)	L. Slaughter, Esq.	8	2 0	270	35·8	37·79	177	127
D Frome (Selwood School)	Miss E. M. Coombs	5	1 7	320	33·9	34·89	186	123
D Mells (Selwood)	Miss E. G. Horner	5	1 0	344	37·2	40·85	186	127
D Binegar (Gurneyslade)	Rev. G. B. Hicks	5	1 0	588	43·3	50·32	180	143
D Stratton-on-Fosse (Downside Ab.)	Rev. G. B. Hicks	8	1 0	600	41·5	47·92	195	142
D Orchardleigh Park	Major A. C. Duckworth	8	1 0	320	32·8	37·87	174	123
D Lullington	H. G. Chislett, Esq.	5	1 0	200	..	37·47	180	131
D Chilcompton (The Woodlands)	C. H. M. Thring, Esq.	5	0 10	450	..	47·53	198	149
D Chewton Mendip (The Priory)	The late Earl Waldegrave	5	1 0	550	45·0	47·99	184	145
D Midsomer Norton (Dymboro')	Dr. A. Bulleid	5	1 0	350	35·8	40·74	180	132
D Midsomer Norton (C.E. School)	J. Poyner, Esq.	5	0 8	310	..	40·92	171	135
D Radstock (Frome Hill)	C. H. Perry, Esq.	8	2 6	330	34·7	42·42	172	124
D Litton (Sherborne Res.)	J. A. McPherson, Esq., C.E.	5	1 0	340	40·0	45·90	169	143
w Harptree Hill	J. A. McPherson, Esq., C.E.	5	1 0	784	..	47·93	..	..
d Tellisford (Crabb Hall)	Dr. W. C. Everley Taylor	5	1 0	182	..	34·79	..	..
D Hinton Blewitt Manor	Maurice Church, Esq.	5	1 3	500	39·6	44·92	215	146
d High Littleton Vicarage	Rev. T. H. Fitzpatrick	5	0 11	446	..	39·42	(179)	(137)
D Clutton (Council School)	I. C. Hoyal, Esq.	5	1 0	427	35·5	43·00	219	142
D Pensford (Sutton Court)	Lord Strachie	8	1 0	280	37·7	40·77	189	136
D Midford (Pumping Station)	Combe Down W.W. Co., Ltd.	5	1 0	135	..	36·50	173	127
d Monkton Combe (Crossways)	M. J. Lipscomb, Esq.	5	1 0	210	33·2	39·77	..	125
D Pensford (Hunstrete House)	H. Leyborne Popham, Esq.	5	0 9	400	33·7	38·48	178	133
D Chew Magna	J. A. McPherson, Esq., C.E.	5	1 0	180	36·3	41·94	163	131
D Pensford (Publow School Ho.)	A. Hayes, Esq.	5	1 0	230	33·2	39·80	172	133

§ Turf Wall erected Oct. 1932. * *Per* Cornwall Rainfall Association.

DIVISION V—SOUTH-WESTERN COUNTIES—(*con.*).

	STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1932. Rainfall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
			in.	*ft. in.*	*ft.*	*in.*	*in.*		
	SOMERSETSHIRE—(*con.*)								
	1.—LOWER AVON—(*con.*)								
D	Bath (Henrietta Park)	Bath Corporation	5	1 0	67	30·3	33·47	178	127
D	Bath (Monkton Combe)	W. G. Lock, Esq.	5	1 0	450	30·3	38·63	224	149
d	Bath (Combe Lodge)	Major T. H. Clark	5	1 0	520	31·4	36·37	..	..
D	Bath (Statutory Hospital)	Bath Corporation	5	1 0	520	32·8	36·07	161	136
D	Bath (Claverton Lodge)	G. Lipscomb, Esq.	5	1 3	375	29·1	33·20	175	131
D	Bath (Lansdown Place)	Lady Stothert	5	1 2	450	31·5	34·08	199	130
D	Bath (Charlcombe)	Bath Corporation W.W.	5	1 6	325	31·4	34·59	154	124
D	Whitchurch (The Mead)	N. L. Butt, Esq.	5	0 6	300	..	37·68*	188	133
D	Batheaston Reservoir	Bath Corporation W.W.	5	1 0	248	31·1	35·98	193	130
D	Batheaston (Sandybank Inn)	F. Lee, Esq.	5	1 0	150	..	39·32	179	138
D	Keynsham (Chewton Road)	A. E. Stephens, Esq.	8	1 0	133	29·6	35·72	167	131
D	Bath (Brockham End)	Mr. H. A. Holland	5	2 0	730	29·9	35·53	186	135
D	Barrow Gurney Reservoir	J. A. McPherson, Esq., C.E.	5	1 0	300	36·2	39·60	159	107
D	Lansdown	Bath Corporation W.W.	5	1 0	380	..	36·63	173	137
D	Long Ashton (Research Station)	W. H. Neild, Esq.	8	0 8	162	34·1	38·94	185	131
D	Failand House	University of Bristol	5	1 0	390	34·6	43·94	199	138
d	Portishead (Bristol Rd.)	Portishead Dist. Water Co.	5	1 6	24	34·9	35·36	(179)	(134)
d	Portishead (St. Mary's Road)	Paul Sinnock, Esq.	5	1 0	67	33·0	34·45	(165)	(125)
	2.—YEO, AXE & BRUE. 405 sq. mi.								
D	Alford Rectory	Rev. A. B. Burney*	5	..	100	30·8	32·70	160	123
D	Somerton (Butleigh Court)	R. Neville Grenville, Esq.	8	1 2	95	30·5	30·55	166	121
D	Bruton (Great Down Cottage)	F. K. Makins, Esq.	5	1 0	280	..	34·02	201	123
D	Ditcheat Rectory	Rev. H. H. Tripp, M.A.	5	1 0	230	31·5	34·16	171	129
D	Street (Overleigh House)	J. B. Clark, Esq.	5	0 10	100	28·5	28·36	155	119
D	Street (Hindhayes)	Mrs. Bancroft Clark	5	1 6	78	28·8	29·47	161	121
D	Street (Portway)	J. E. Clark, Esq.	5	1 0	80	..	30·02	160	124
	Street (Wraxhill Corner)	A. H. Clothier, Esq.	5	1 10	70	..	30·40	..	..
D	Street (Millfield) *old g*	Miss Alice Clark	8	0 6	100	29·5	30·82	151	126
D	Street (Millfield) *new g*	Miss Alice Clark	5	1 1	100	..	28·75	151	118
D	Glastonbury (St. Michael's)	Ven. Archdeacon W. Farrer.	5	1 0	220	28·8	32·39	170	132
D	Edington	Major A. C. F. Luttrell	5	1 6	90	31·2	34·61	178	133
D	Chilton Polden (West House)	Mr. E. Chick	5	1 0	100	28·5	28·74	168	119
D	Cossington Manor	J. C. Macro Wilson, Esq.	5	1 0	110	..	29·55	165	120
D	Meare	E. J. H. Stott, Esq.	5	1 0	35	..	30·70	159	127
D	Shepton Mallet (Pilton)	Miss E. M. Allen	5	1 3	354	34·6	35·41	180	129
D	Shepton Mallet (Charlton)	C. E. Burnell, Esq., J.P.	5	1 0	481	38·8	42·23	183	136
D	Shepton Mallet (Field House)	Sir F. H. Berryman	5	1 0	500	38·6	42·65	173	133
D	Shepton Mallet (Sewage Farm)	The Surveyor, U.D.C.	5	1 0	330	38·7	42·09	189	143
D	Doulting Vicarage	Rev. H. S. Darbyshire	5	1 0	693	39·8	41·72	180	134
D	Wells (The Palace)	Mrs. Wynne Willson	..	..	150	..	35·86	153	127
D	Wells (St. Cuthbert's Lo.)	Rev. H. W. Laidlay	5	1 0	135	..	36·29	166	129
d	Wells (Mental Hospital)	The Medical Superintendent	5	1 2	300	..	38·63	..	..
D	Wookey Vicarage	Rev. F. P. Synge	5	2 0	50	33·5	37·06	186	132
D	Blackford (Council School)	E. H. Phillips, Esq.	5	1 0	50	..	34·59	168	133
d	Wells (Wookey Hole Paper Mills)	W. S. Hodgkinson & Co.,Ltd.	5	1 0	200	35·1	39·29	..	120
D	Wookey Hole (Wookey Ho.)	E. T. Wilson, Esq.	5	1 0	200	..	40·13	182	140
D	Burnham (Chalbury)	H. A. Smith Spark, Esq.	5	1 0	20	29·1	29·43	185	123
D	Burnham	W. H. Chowins, Esq., C.E.	8	0 8	24	28·5	29·78	170	138
D	Burnham (Berrow Road)	Miss M. Robinson	5	1 0	10	29·2	28·20	178	125
D	Burnham (Brent Knoll)	J. Griffith, Esq.	5	1 9	25	30·3	28·82	195	131
D	Cheddar (Pumping Station)	J. A. McPherson, Esq., C.E.	5	1 0	50	33·6	36·06	152	116
w	Charterhouse	J. A. McPherson, Esq., C.E.	5	1 0	619	43·2	47·14	..	..
w	Compton Martin	J. A. McPherson, Esq., C.E.	5	1 0	276	42·4	45·67	..	..
D	Shipham (Studleigh End)	Miss E. M. Garaway	5	1 0	540	..	39·47	179	129
w	Ubley (Rookery Farm)	J. A. McPherson, Esq., C.E.	5	1 0	525	44·9	49·71	..	..
D	Winscombe (The Down)	J. Grubb, Esq.	5	1 0	295	35·8	38·06	172	128
D	Banwell (Eversleigh)	Dr. Kenneth Anderson	5	1 6	50	33·9	34·20	180	127

* *Per* Mid-Wessex Rainfall Association.

DIVISION V—SOUTH-WESTERN COUNTIES—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Aver-age Rain-fall.	1932. Rain-fall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
		in.	*ft. in.*	*ft.*	*in.*	*in.*		
SOMERSETSHIRE—(*con.*)								
2.—YEO, AXE and BRUE—(*con.*)								
w Blagdon Hill	J. A. McPherson, Esq., C.E..	5	1 0	550	40·6	48·45	..	..
D Blagdon (Pumping Station)	J. A. McPherson, Esq., C.E..	5	1 0	112	37·0	41·25	169	132
w Blagdon (Coombe Lodge)	J. A. McPherson, Esq., C.E..	5	1 0	388	39·6	44·14	..	..
w Nempnett (West Town)	J. A. McPherson, Esq., C.E..	5	1 0	263	36·3	40·72	..	..
w Burrington (Burrington Links)	J. A. McPherson, Esq., C.E..	5	1 0	335	38·1	41·84	..	..
D Weston-super-Mare (Clarence Pk.)	W. H. Allen, Esq.	5	1 0	29	29·9	30·43	157	114
D Churchill (Langford House)	Sidney Hill, Esq., J.P.	8	0 10	90	..	44·38	180	132
w Butcombe (Cholwell)	J. A. McPherson, Esq., C.E..	5	1 0	370	38·9	42·07	..	..
D West Town (Downside)	Major E. J. Dunscombe.	8	1 4	650	..	40·39	183	132
D Yatton (Chelvey)	J. A. McPherson, Esq., C.E..	5	1 0	60	32·5	37·24	171	121
D Backwell Hill	W. Garnett, Esq.	5	1 0	490	33·2	36·07	151	123
D West Town	Theodore Robinson, Esq...	5	1 0	80	34·6	36·72	178	125
d Clevedon (Gas Works)	J. Harger Pye, Esq.	5	1 2	22	33·5	36·20	160	128
D Clevedon W.W. (Tickenham Rd.)	J. Harger Pye, Esq.	5	1 6	70	31·2	36·27	163	125
d Clevedon (Bowling Green)	Mr. H. H. Brook.	5	0 11	126	33·8	36·39	..	..
D Clevedon (Mt. Heber Cottage)	G. M. S. Farmer, Esq.	5	1 0	144	34·3	37·40	176	116
D Wraxall Court	Mr. G. Hyde	5	0 10	200	..	38·69	176	138
3.—PARRETT. 568 sq. mi.								
D Chard (High Street Council Sch.)	F. Barnard, Esq.	5	1 2	425	39·1	45·71	182	140
D Crewkerne (The Reservoir)	E. H. Munford, Esq.	8	1 0	426	33·7	37·37	174	126
D Crewkerne (Bincombe House)	Mrs. R. H. Symons.	5	1 3	293	34·7	40·53	163	127
D Chaffcombe House	Col. L. H. Noblett.	5	0 10	400	33·1	39·93	187	131
D Combe St. Nicholas	Rev. G. de Y. Aldridge.	5	1 6	580	38·4	45·94	200	146
Coker Court Gardens	Mr. T. H. Gilham.	5	1 6	255	33·7	38·84	166	135
D Ilminster	The Surveyor	8	0 9	182	..	37·76	166	128
D Ilminster (Dillington Park) (R)	Mr. W. Goldthorpe.	8	3 0	161	..	36·62	172	126
D Yeovil (Reckleford School)	The Headmaster.	5	2 0	150	..	(36·43)	154	120
D Yeovil (Pen Mill Sewage Works)	Dr. C. W. Gee.	5	1 0	102	30·6	32·24	201	129
D Pitminster (Blagdon Hill)	G. L. Sidey, Esq.	5	0 10	750	..	45·10	202	151
D Stoke-under-Ham	Miss M. H. Gillett.	9	1 0	80	31·2	37·44	150	130
D Angersleigh (Leigh Court)	A. Eastwood, Esq.	8	1 0	360	35·0	38·79	189	137
D Ashbrittle (Kyrle)	Major J. H. Mathias.	5	0 9	525	..	42·64	192	144
d Bradford (Stoford Manor)	W. Simms, Esq.	5	0 8	110	..	35·83	..	..
D Martock Vicarage	Rev. G. W. Saunders.	5	0 9	61	29·6	31·38	166	117
D Rimpton	P. B. Cardwell, Esq.*	5	1 0	147	..	32·93	205	130
D Taunton (The Park)	Dr. John Allen.	5	1 0	71	29·5	30·83	187	128
D Taunton (Holy Trinity School)	A. P. Guest, Esq., M.B.E..	5	1 0	65	29·1	29·89	192	133
D North Curry Vicarage	Rev. A. Gossage Robinson .	5	0 11	90	..	31·00	175	122
D Milverton (Old Halls)	Mrs. Bere	5	1 8	250	..	35·92	184	147
D Milverton (Spring Grove)	Major R. C. Coldwell.	5	1 0	449	36·7	39·06	182	141
D Wiveliscombe (Culverhead)	Lt.-Col. H. Jefferys Taylor, D.S.O.	5	0 10	430	39·6	43·34	167	140
D Langport (The Grange)	Miss V. M. Page.	5	1 0	50	27·9	28·26	195	126
D Langport (Council School)	H. G. Jefferies, Esq.	5	1 0	52	28·1	30·28	169	127
D N. Cheriton (Maperton House)	Mr. P. S. Curd *	5	1 3	390	35·3	37·31	185	130
D Somerton (The Grange)	R. W. Pretor-Pinney, Esq..	5	1 0	106	27·8	29·99	152	120
D Wiveliscombe (Council School)	The Headmaster.	5	1 1	410	..	41·86	180	144
D Bishop's Lydeard (Watts Ho.)	Sir Dennis Boles, Bart.	5	1 2	320	..	30·66	176	127
D North Newton	The Headmistress	5	0 9	50	..	27·03	163	129
D Aisholt (Timbercombe)	Mrs. White.	5	1 2	700	33·2	35·16	191	145
D Bagborough Rectory	C. Hubert Lance, Esq.	9	1 0	470	34·1	34·70	198	149
d Spaxton (Bush House)	Capt. A. M. Stancomb, R.N.	5	1 0	250	..	(31·33)	(172)	(129)
D Bridgwater (Blake Gardens)	The Borough Engineer.	5	3 1	27	28·5	31·11	167	124
D Bridgwater (Wembdon Road)	H. Corder, Esq.	5	1 0	30	29·9	29·79	157	120
d Over Stowey (Quantock San.)	Medical Superintendent.	5	1 0	500	..	34·53	(152)	(132)
D Cannington (Ashford)	Bridgwater Borough Engineer..	5	1 1	102	31·4	29·26	166	121
D Cannington (Farm Inst.)	The Principal.	5	1 0	95	..	29·74	184	115

* *Per* Mid-Wessex Rainfall Association.

DIVISION V—SOUTH-WESTERN COUNTIES—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Rain-gauge: Average Rainfall.	1932. Rainfall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
SOMERSETSHIRE—(*con.*)		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
4.—NORTH COAST STREAMS. 158 sq. mi.								
D Elworthy (Willett)	H. C. Venning, Esq.	5	1 0	450	35·1	37·34	150	131
Croydon Hall	Capt. J. W. Bridges	5	3 0	500	41·6	40·20	..	141
Bicknoller (Ford)	John Tracey, Esq.	5	1 2	150	33·0	34·82	193	139
D Dodington	Miss W. J. Malet	5	1 0	450	..	37·02	177	139
D Bicknoller (Weacombe Ho.)	O. T. Sadler, Esq.	5	1 0	320	34·2	32·36	151	129
Williton (Aller Farm)	R. G. Hosegood, Esq.	5	3 0	175	32·4	34·45	174	140
D Williton (The White House)	S. L. Rogers, Esq., J.P.	5	1 0	97	30·6	33·02	165	134
D Kilve Court	Miss A. Fry	5	1 0	150	30·0	33·32	176	130
D Stogursey	Dr. P. Hallam	5	0 8	145	..	31·77	157	123
D Stogursey (Fairfield House)	Lord St. Audries	5	1 0	150	31·1	32·89	179	125
D Dunster	P. R. Day, Esq.	5	1 0	160	33·0	35·32	158	118
D Stolford (Whitewick Farm)	C. Mackenzie, Esq.	5	1 0	10	..	31·23	142	115
D Minehead (Blenheim Gardens)	A. Douglas Barron, Esq.	5	1 0	37	..	31·93	169	126
D Porlock (Lynch Mead Allerford)	J. Dyke Acland, Esq.	5	1 3	113	34·6	32·07	214	137
D Porlock (Bush Steep)	Mrs. W. P. Holmes	5	0 9	130	43·2	39·40	182	142
West Porlock House	G. W. W. Blathwayt, Esq.	5	1 1	150	..	43·18	..	..
d West Porlock (Underway)	N. G. Hadden, Esq.	5	1 0	80	44·2	45·69	..	134
D Culbone (Lillycombe)	E. T. MacDermot, Esq.	5	1 0	1210	50·5	54·65	209	164
5.—EXE. 122 sq. mi.								
D Churchstanton (Widcombe)	G. Clinton Baker, Esq.	8	0 11	850	..	43·27	186	146
D Exbridge	Exe Valley Fishery Co.	5	3 0	410	44·1	46·65	177	143
D Brushford Rectory	Rev. B. J. du Boe	5	1 0	450	44·3	47·72	186	150
D Brushford Nurseries	Mr. G. Ruff	5	1 2	430	44·1	47·97	193	148
D Dulverton C.E. School	C. J. R. Weaver, Esq.	5	0 9	550	..	54·49	186	165
D Hawkridge (Liscombe)	Mr. E. W. Darby	5	1 6	980	57·8	50·69	207	166
D Winsford	Capt. R. S. Le Bas	5	1 0	620	..	55·72	196	160
d Cutcombe (Wheddon Cross)	The Headmistress	5	1 6	945	49·5	(52·63)	..	..
6.—AXE. 42 sq. mi.								
D Wayford Manor	H. L. P. Baker, Esq.	5	0 10	400	..	43·95	174	141
D Cricket St. Thomas	Mr. C. G. Rose	5	1 0	444	39·3	44·63	172	154
7.—STOUR. 35 sq. mi.								
D Temple Combe Rectory	Rev. Preb. R. W. Windsor..	5	1 0	250	34·9	35·42	176	135
D Wincanton (Roundhill Grange)	Maj.-Gen. C. H. P. Ducat..	5	1 11	375	32·7	35·26	174	133

DIVISION VI—WEST MIDLAND COUNTIES.

GLOUCESTERSHIRE. (Area, 1,243 sq. mi.)

1.—WYE. 50 sq. mi.								
D Chepstow (Castleford)	Mrs. W. R. Lysaght	5	0 11	146	35·8	39·87	184	144
D St. Briavels (St. Briavels House)	Surg.-Cpt. O. W. Andrews, R.N.	5	1 0	750	43·4	45·51	183	133
D Forest of Dean (Mailscot Lodge)	Forestry Commission	8	1 0	630	..	39·74	209	130
D English Bicknor (Bicknor House)	T. F. Harvey, Esq.	5	1 0	490	32·6	36·79	170	124
D Lydbrook (Viaduct House)	G. S. Damsell, Esq.	5	1 0	95	31·8	34·41	208	130
D Ruardean Hill Lodge	Forestry Commission	8	1 0	932	..	36·63?	166	133
2.—SEVERN—Right Bank Tributaries. 176 sq. mi.								
D Lydney (Clanna Cottage)	Brig.-Gen. A. M. Tyler, C.M.G.	8	0 10	359	39·7	40·54	190	133
d Forest of Dean (Whitemead Pk.)	Forestry Commission	8	1 0	200	34·7	39·37	..	..
D Forest of Dean (Blakeney Hill Lo.)	Forestry Commission	8	1 0	500	31·6	34·59	182	131
D Forest of Dean (Worcester Lo.)	Forestry Commission	8	0 11	712	..	41·37	192	133
D Coleford (Cannop Colliery)	J. J. Joynes, Esq.	5	14 0	300	..	37·83	190	124
D Westbury-on-Severn (Ninnage L.)	Miss N. E. Grant	5	1 0	120	29·2	33·71	158	117
D Forest of Dean (Edgehills Lodge)	Forestry Commission	8	1 0	915	33·2	38·98	188	140
D Newent (Taynton)	M. Philips Price, Esq.	5	1 0	50	29·0	32·02	151	116
D Bromsberrow Heath Pump. Stat.	W. Osborne Thorp, Esq., C.E.	5	1 0	181	26·2	33·81	150	120
D Tewkesbury (Forthampton Ct.)	Mr. B. Webster	5	1 0	48	26·9	32·00	191	131
D Tewkesbury (Upper Lode)	J. E. Bradley, Esq.	5	1 0	41	25·2	28·57	171	125

DIVISION VI—WEST MIDLAND COUNTIES—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1932. Rainfall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
GLOUCESTERSHIRE—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
3.—SEVERN—Left Bank Tributaries. 372 sq. mi.								
D Chipping Sodbury (Horton Hall)	Colonel P. Burges	5	1 0	380	31·5	35·72	161	142
D Thornbury (Thornbury Park)	Capt. R. A. Bennett	5	1 3	70	32·2	34·00	172	132
D Tortworth Court	Mr. J. Banting	8	1 0	264	31·5	34·06	184	131
D Tortworth School	E. A. Smith, Esq.	5	1 6	264	31·8	34·53	186	135
D Wooton-under-Edge (Ellerncroft)	E. R. Tuck, Esq.	5	1 0	398	..	34·03	152	136
D Dursley (The Manor)	Miss H. M. Hutton	5	1 0	274	32·4	34·37	169	130
d Avening House	Lady Eleanor Byng	8	1 3	350	32·3	36·88	..	..
D Avening (Gatcombe)	Colonel H. G. Ricardo	6	1 0	550	31·6	35·76	183	140
D Berkeley Castle Gardens	Mr. T. B. Ashbee	5	1 6	60	29·1	32·28	153	117
D Nailsworth (Three Corners)	F. R. Rushton, Esq.	5	0 9	325	34·0	36·11	189	130
D Berkeley (Sharpness Docks)	A. J. Cullis, Esq., C.E.	5	1 3	50	29·5	36·29	168	130
D Minchinhampton (The Shard)	E. H. Denne, Esq.	5	0 8	500	32·0	34·81	181	129
D Minchinhampton (Rectory Cott.)	G. W. Fisher, Esq.	5	1 0	610	..	37·18	185	133
D Minchinhampton (Camp Field)	Miss B. M. Legh	5	1 6	640	33·9	41·12	211	140
D Chalford W.W.	Stroud Water Co.	5	1 6	241	..	35·81	172	128
D Frocester Manor	Capt. J. E. H. Graham-Clarke.	5	1 3	80	..	29·96	148	123
D Stroud (Thrupp)	George G. Loane, Esq.	5	1 0	300	..	34·54	173	126
D Stroud (Stanley Park Gdns.)	Sir P. S. Marling, Bt., V.C., C.B.	8	1 0	365	33·2	35·64	153	135
D Stonehouse (Wycliffe College)	W. A. Sibly, Esq.	5	1 0	120	29·0	30·86	160	126
Stroud (Berrimans)	E. Armitage, Esq.	5	1 0	750	34·0	36·35	..	..
D Stonehouse (Parklands)	W. Grey Robinson, Esq., J.P.	5	2 6	103	..	32·95	199	113
M Stroud (Lypiatt Park)	Mr. A. J. Buck	5	1 3	820	..	35·98	..	..
D Miserden Park	G. E. Arthurs, Esq.	5	1 2	750	..	38·65	186	138
D Witminster (The Junction)	A. J. Cullis, Esq., C.E.	5	1 0	32	..	35·72	209	131
D Haresfield Court	Miss Tidswell	5	0 10	100	30·2	35·63	177	137
D Harescombe Grange	Stamford Hutton, Esq.	5	1 0	557	29·3	32·62	178	137
D Quedgeley House	Miss M. F. Curtis-Hayward	5	1 3	65	27·9	32·98	177	122
D Witcombe Reservoir	C. J. Scudamore, Esq., C.E.	8	1 0	297	29·2	31·45	177	124
D Brockworth (The Kia)	Mrs. Grace Buckle	5	1 4	220	27·1	29·78	163	108
D Gloucester (The Park)	R. H. Ellis, Esq.	5	1 3	56	26·6	30·58	162	116
d Gloucester (Llanthony Lock)	J. E. Bradley, Esq.	5	1 2	39	25·4	29·38	..	109
D Gloucester (Maisemore Lock)	J. E. Bradley, Esq.	5	1 1	39	25·1	27·80	169	108
D Churchdown (Barrow Hill)	Mrs. J. H. Jones	5	1 0	225	27·9	31·17	178	124
D Dowdeswell Reservoir	J. S. Pickering, Esq., C.E.	5	1 3	357	30·0	31·21	149	122
D Cheltenham (Hewletts Res.)	J. S. Pickering, Esq., C.E.	8	1 6	419	27·7	29·41	174	124
D Cheltenham (Sandford Mead)	J. S. Pickering, Esq., C.E.	5	2 6	210	26·3	27·56	154	116
D Cheltenham (Montpellier Gds.)	Town Clerk	5	1 0	214	26·5	28·41	164	115
D Cheltenham (Swindon)	J. C. M. Stanton, Esq.	8	1 2	136	25·6	27·58	177	120
D Tewkesbury Pumping Station	J. S. Pickering, Esq., C.E.	5	1 0	47	23·9	29·01	161	121
4.—SEVERN—Upper Avon. 99 sq. mi.								
D Blockley	Miss E. M. Richardson	5	1 0	..	..	33·91	184	130
D Winchcombe (Sudeley Castle)	Major J. H. D. Brocklehurst	5	1 0	357	29·8	33·05	164	128
D Broadway (Buckland Manor)	Mr. J. Whiteley	5	1 0	300	27·7	30·98	180	125
5.—LOWER AVON & C. 198 sq. mi.								
D Bath (Monkswood Reservoir)	Bath Corporation W.W.	6	1 6	365	..	35·89	191	130
D Bristol (Tyndalls Pk. Rd.)	(+A)O. W. Dunscombe, Esq.	5	1 4	150	33·1	38·19	183	135
Bristol (Kingswood)	H. Pratten, Esq.	5	1 0	260	..	35·78	..	..
D Bristol (Hopewell Hill)	W. Gloucester Water Co.	5	1 0	381	30·5	36·02	157	130
D Bristol (Sneyd Park)	Mrs. A. M. Tanner	5	1 8	300	..	38·83	159	139
D Clifton (Oakfield Road)	J. A. McPherson, Esq., C.E.	5	1 0	200	33·0	37·16	182	130
D Clifton (All Saints Rd.)	H. T. Coles, Esq.	5	0 11	200	..	39·97	203	137
Bristol (St. Andrew's Park)	H. Vicars Webb, Esq.	5	1 6	200	32·6	37·87	..	139
D Horfield	G. H. Brown, Esq.	5	1 0	206	..	39·56	193	144
D Shirehampton (Kings Weston)	P. Napier Miles, Esq.	8	1 0	220	..	36·48	168	131
D Filton	F. W. Gayner, Esq.	5	1 0	200	..	35·62	174	129
Winterbourne (Kendleshire)	J. Marsh, Esq.	5	1 0	170	..	37·18	..	..
D Frampton Cotterell (Park Ho.)	H. H. Harding, Esq.	5	1 0	158	..	35·30	197	134
D Badminton Gardens	The Head Gardener	5	1 0	407	..	38·66	172	138
D Almondsbury (Ridgewood)	R. E. Potter, Esq.	5	0 10	200	29·7	31·50	181	135
D Shipton Moyne P.S.	W. Gloucester Water Co.	8	1 0	314	..	33·65	147	115

DIVISION VI—WEST MIDLAND COUNTIES—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Aver-age Rain-fall.	1932. Rain-fall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
GLOUCESTERSHIRE—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
6.—THAMES—Right Bank Tributaries. 15 sq. mi.								
7.—THAMES—Windrush & c. 333 sq. mi.								
D Somerford Keynes (Manor Ho.)	F. Fawcett, Esq.	5	0 9	450	..	31·50	161	134
D Fairford (Dunfield, Kempsford)	A. T. Iles, Esq.	5	1 0	260	25·6	27·49	167	120
D Fairford Vicarage	Rev. Canon R. C. S. Jones	5	1 0	280	26·7	27·87	167	129
D Lechlade (St. John's Lock)	Thames Conservancy	5	1 7	237	24·3	28·08	176	119
D Lechlade (Claydon House)	T. T. S. Metcalfe, Esq.	5	1 0	250	25·9	29·00	170	129
D Cirencester (R. Agric. Coll.)	The Principal	5	1 0	443	..	33·16	174	129
D Cirencester (Gwynfa)	Nigel Woods, Esq.	5	1 0	354	30·8	32·39	180	127
D Daglingworth Manor	J. Herbert Scrutton, Esq.	8	0 10	450	30·8	34·83	175	126
D Cirencester (Barnsley Pk.)	W. H. Wykeham-Musgrave, Esq.	5	0 9	495	31·3	32·19	192	128
D Great Barrington	H. J. Barrett, Esq.	5	1 6	417	28·8	30·92	176	129
D Northleach (Leygore Manor)	Arthur E. Moss, Esq.	5	1 0	650	..	31·46	190	128
D Bourton-on-Water (Eastfield)	E. W. Kendall, Esq.	5	1 6	434	30·1	31·03	167	121
Bourton-on-Water (Chardwar)	Miss A. B. Moore	5	1 0	430	30·3	32·24	161	..
d Bourton-on-Water (Rectory)	Canon W. E. White	5	0 10	433	29·6	32·12	..	..
D Stow-on-the-Wold (Icomb Place)	Capt. G. H. Simpson Hayward	8	1 3	500	29·3	32·94	170	135
D Winchcombe (Temple Guiting Ho.)	Major C. Stacey	5	1 3	700	31·6	34·63	174	136
HEREFORDSHIRE. (Area, 840 sq. mi.).								
1.—WYE. 685 sq. mi.								
D Goodrich Court Gardens	Mrs. G. R. Trafford	5	1 8	200	29·7	37·11	193	148
Walford (Hill Court Gardens)	Mr. D. Hawker	5	1 1	161	28·4	32·68	165	127
D Ross (County Observatory). (+A)	F. J. Parsons, Esq.	5	1 0	223	27·4	30·98	167	114
D Ross (Birchlea)	Miss M. L. Southall	5	1 0	210	28·2	32·76	184	125
D Bridstow (Ashe Leigh)	Major W. Stanley R. Cox	5	1 0	230	27·4	32·41	164	127
D Kentchurch Rectory	Rev. R. P. Dansey	5	1 0	220	34·6	38·67	184	131
D Ross (The Chantry)	M. F. Maclean, Esq.	5	0 10	475	..	31·21	184	128
d Perrystone Court	Lt.-Gen. G. S. Clive, D.S.O.	5	1 3	450	25·5	28·21	..	..
D Vowchurch (Ladywell House)	A. S. Wood, Esq.	5	1 0	400	34·9	38·15	193	128
D Hereford (Belmont Abbey)	The Abbot	8	1 0	292	27·6	32·51	185	123
D Hereford (Breinton Court)	Mrs. R. E. H. Baily	5	1 0	238	25·9	27·19	184	115
D Tarrington (Alder's End)	J. H. Whiting, Esq.	5	1 2	360	..	34·11	178	127
D Dorstone (Oaklands)	Robert Gray, Esq.	5	1 0	486	..	38·84	202	136
D Hereford (Holmer Hall)	Miss M. S. Hopton	5	1 3	244	25·1	27·95	170	110
D Tyberton Court	Major C. B. L. Warner	5	0 10	276	..	32·77	165	119
D Credenhill (Stretton Sugwas)	Capt. S. H. Armitage	5	1 0	226	25·8	29·38	189	126
D Credenhill	F. E. Whiting, Esq.	5	1 5	275	27·5	27·82	163	124
D Clifford School	The Headmaster	5	1 7	490	..	35·02	191	127
D Burghill	F. Boddington, Esq.	5	1 0	310	26·3	26·40	161	118
D Ocle Pychard (Ocle Court)	G. Cresswell, Esq.	8	1 0	298	27·8	33·30	198	136
D Sarnesfield Court	Rev. W. Marshall	5	1 0	378	..	32·32	169	120
D Weobley School	A. J. Dean, Esq.	5	1 0	320	29·5	32·19	209	130
D Pembridge (Moor Court)	C. A. Benn, Esq.	5	1 6	400	..	30·43	167	127
D Pembridge (Burton Court)	Mrs. P. Clowes	5	1 6	400	28·4	32·77	204	145
d Bromyard (Birchyfields)	J. E. Knott, Esq., D.S.O.	5	1 3	545	..	32·16	(169)	(132)
D Bromyard (Dumbleton Cot.)	Miss M. A. Philpott	5	1 0	393	29·0	32·02	185	126
D Kington (Lynhales)	Mrs. R. F. Hibbert	5	1 0	620	..	32·14	195	135
D Kington (Hill Court)	J. E. Barendt, Esq.	5	0 8	595	..	36·41	187	142
M Kington (Sunset)	H. Langston, Esq.	5	1 6	495	32·0	33·33	..	..
D Kington (Golf Club)	C. A. Benn, Esq.	5	1 0	1284	..	36·92	187	142
D Humber Rectory	Rev. B. G. Way	5	1 6	450	30·9	31·32	163	120
D Leominster (Hennor)	Capt. L. R. Hibbert	5	1 1	440	..	30·49	188	125
D Leominster (Fairholme)	E. B. Reynolds, Esq.	5	0 9	285	28·5	30·99	177	127
D Kimbolton (Grantsfield)	J. M. Hutchinson, Esq.	5	1 0	424	28·4	31·87	189	131

DIVISION VI—WEST MIDLAND COUNTIES—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Rain-gauge: Average Rainfall.	1932. Rainfall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
HEREFORDSHIRE—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
2.—SEVERN.—Right Bank Tributaries. 155 sq. mi.								
d Ledbury (Donnington Hall)	Col. C. Spence-Colby, C.M.G.	5	1 0	..	..	31·47	..	..
D Much Marcle (The Mount)	Miss A. M. Charles	5	1 0	240	25·8	30·31	178	128
D Much Marcle (Hall Court)	Mrs. J. J. S. Powell	5	1 0	200	..	29·49	150	113
D Little Marcle Rectory	Rev. A. F. Ealand	5	1 3	166	..	31·14	186	129
D Ledbury (Underdown)	The late S. H. Bickham, Esq.	5	1 0	307	27·1	30·85	175	129
Ledbury (The Twerne)	L. J. C. Riley, Esq.	5	1 0	400	..	33·49	213	129
d Colwall (The Downs)	F. M. Day, Esq.	5	1 0	500	..	30·86	..	..
D Colwall (Upper Wyche)	Miss M. E. Coulson	5	0 9	1000	..	33·04	221	137
Cradley (Mill Bank)	Lt.-Col. E. H. Thurlow	5	1 0	320	28·4	29·24	..	120
d Brampton Bryan	A. Wilkinson, Esq.	8	1 3	437	..	34·71	..	..
D Leintwardine	E Charnock, Esq.	5	1 6	450	31·9	35·14	221	150
SHROPSHIRE. (Area, 1343 sq. mi.).								
1.—MERSEY.—Weaver. 27 sq. mi.								
2.—DEE. 30 sq. mi.								
D Ellesmere (Seven Sisters)	C. Adam, Esq.	5	1 0	300	..	29·31	191	137
D Whitchurch (Fenns Bank)	M. W. Sowden, Esq., C.E.	8	1 0	271	27·1	28·18	177	144
d Overton (Sodylt Hall)	W. H. Horsfall, Esq.	5	1 0	266	29·7	32·25	..	139
3.—SEVERN.—Right Bank Tributaries. 722 sq. mi.								
D Bucknell Vicarage	Rev. W. A. Woodhouse	5	1 0	480	..	34·56	174	137
Knighton (Lurkenhope Cottage)	Miss M. A. Davies, for M.O.	5	1 0	·650	..	37·45	..	..
d Ludlow (Hill Crest)	C. B. Marston, Esq.	5	1 3	350	..	30·32	..	..
D Bromfield (Warwick House)	F. Brayshaw, Esq.	5	1 0	320	30·3	32·71	206	140
D Bitterley Grammar Sch.	The Headmaster	5	1 0	509	28·1	31·05	200	147
D Stanton Lacy Vicarage	Miss I. Armitage	5	1 0	304	28·1	33·45	195	143
d Culmington Manor	T. W. Shaw, Esq.	5	1 4	575	29·6	32·67	..	138
D Burwarton Hall	Rt. Hon. Viscount Boyne	5	0 9	894	33·6	38·09	192	176
D Lydbury North	Erskine Edmonds, Esq.	5	1 0	500	..	32·69	219	157
D Lydbury North (Totterton)	Major W. H. B. Whitaker	5	1 3	700	30·8	32·63	197	146
D Bishops Castle (The Vicarage)	Rev. Canon H. J. Smith	5	1 4	596	32·8	31·85	202	151
D Bishops Castle (Castle Street)	E. Griffiths, Esq.	5	1 0	720	31·0	34·46	183	153
D Myndtown Rectory	Rev. C. S. Garbett for R. Met. Soc.	5	1 0	700	..	33·78	192	146
D Church Stretton (Sewage Works)	E. J. Marsh, Esq.	5	1 0	582	33·7	36·49	210	159
d Bishops Castle (More Rec.)	T. More, Esq.	5	1 0	605	30·3	(32·11)	..	..
D Bishops Castle (Linley Villa)	T. More, Esq.	5	1 0	700	..	31·94	192	151
d Church Stretton (St. Margaret's)	Rev. J. H. Kidson	5	0 11	672	..	36·52	196	155
Wentnor (Stanbatch)	T. More, Esq.	5	1 0	950	..	(34·50)	..	..
D Bridgnorth (Cantreyn)	W. Bayliss, Esq.	5	1 0	290	26·7	28·98	180	134
D Chirbury (Marrington Hall)	Lt.-Col. S. D. Price-Davies	5	1 0	490	29·5	31·09	188	147
Shelve Pool	T. More, Esq.	5	1 0	1000	..	36·90	..	..
D Church Preen (Preen Cottage)	Miss Edith Hopkins	5	1 0	760	29·1	31·50	172	147
D Church Stretton (Woolstaston)	Mrs. Mathews	5	1 3	745	31·9	38·10	201	151
D Much Wenlock (Willey Park)	Col. Lord Forester	5	3 0	492	28·2	27·16	195	146
D Dorrington School	J. A. Narraway, Esq.	5	1 2	250	..	32·74	217	156
D Shrewsbury (Beckbury House)	G. H. Horsfall, Esq.	5	0 9	220	22·1	28·15	190	138
D Shrewsbury (Radbrook Hall)	Maj. D. D. Macpherson, J.P.	5	0 8	235	24·3	28·75	211	137
d Shrewsbury (Longden Road)	W. Deedes, Esq.	5	1 6	250	..	27·87	..	130
D Shrewsbury (Monkmoor)	The Medical Officer	8	1 0	184	..	26·14	185	130
4.—SEVERN.—Left Bank Tributaries. 564 sq. mi.								
Bridgnorth (Coton Hall)	Capt. W. Colville	5	1 6	460	27·8	31·00	194	135
D Ackleton (The Folley)	H. J. Bath, Esq.	5	1 0	230	..	29·68	203	138
Ackleton House	F. J. Neale, Esq.	8	1 3	270	..	28·89	..	..
D Shifnal (Hatton Grange)	Mr. G. Risebrow	5	1 6	262	26·1	28·91	210	145
D Shifnal (Cosford W. W.)	B. L. McMillan, Esq., C.E.	5	0 11	222	..	27·25	202	133
d Shifnal (National Schools)	The Headmaster	5	1 5	283	28·2	30·62	..	127
d Wellington W. W. (Wrekin Res.)	W. Walker, Esq.	8	2 6	478	25·7	27·72	..	..
D Shrewsbury (Copthorne)	W. H. Purslow, Esq.	8	1 0	252	..	27·11	185	131
D Shrewsbury (Coton Hill)	Dr. M. Gepp	5	1 1	190	22·1	25·12	185	126
Shrewsbury (Fitz Rectory)	Rev. W. Brewster	5	1 2	238	26·2	28·76	..	..
D Newport (Aston Hall)	Col. R. Leeke	5	0 11	280	27·7	28·08	182	134
Pentreheylin Hall	H. P. Hall, Esq.	8	2 2	200	..	33·77	..	..
D Newport (Agricultural College)	The Principal	5	1 0	211	24·8	26·09	189	129

DIVISION VI—WEST MIDLAND COUNTIES—(*con.*).

	STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1932. Rainfall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
	SHROPSHIRE—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
	4.—SEVERN—Left Bank Tributaries—(*con.*).								
D	Newport (Chetwynd Park)	Mrs. Burton Borough	5	1 0	240	28·3	30·53	205	141
D	Grinshill (Sansaw Hall Gardens)	Mrs. Brian Bibby	5	0 10	300	25·7	30·23	207	155
D	Myddle (Marton Hall)	Major R. W. Doyne	5	0 9	280	27·4	30·80	179	157
D	Cheswardine (Knighton Res.)	Canal Engineer, L.M.& S.R.	8	1 0	351	30·0	30·25	190	145
D	Cheswardine Hall	Col.R.C.Donaldson-Hudson..	5	1 6	530	28·6	29·90	196	141
D	Oswestry (Mount Res.)	G. W. Lacey, Esq., C.E.	5	1 0	698	34·5	38·51	201	152
D	Oswestry (Council School)	E. Compton, Esq.	5	1 0	450	32·4	33·77	185	138
D	Norton-in-Hales School	Chas. Chadwick, Esq.	5	1 3	350	30·5	29·57	216	149
	STAFFORDSHIRE. (Area, 1,171 sq. mi.)								
	1.—MERSEY—Weaver. 50 sq. mi.								
D	Biddulph Grange	The Secretary	5	1 4	570	36·0	33·31	202	148
	2.—SEVERN—Left Bank Tributaries. 160 sq. mi.								
D	Kinver (Prestwood)	F. J. Dixon, Esq., C.E.	5	1 0	179	..	28·80	180	128
D	Kingswinford (Ashwood P.S.)	F. J. Dixon, Esq., C.E.	5	1 0	207	24·9	29·35	186	125
D	Dudley (Shavers End)	F. J. Dixon, Esq., C.E.	5	1 0	745	..	30·22	183	140
D	Dudley (Shavers End) No. 3	F. J. Dixon, Esq., C.E.	5	1 0	745	..	28·88	176	135
D	Penn (St. Deichul)	H. L. Mallandaine, Esq.	5	1 1	500	..	32·26	210	142
	Wolverhampton (Copthorne Rd.)	K. C. Berrington, Esq.	6	0 9	505	..	32·19	180	142
D	Wolverhampton (West Park)	Dr. R. H. H. Jolly	5	1 0	430	27·1	30·62	179	138
D	Tettenhall (The Hollies)	R. C. Sikes, Esq., C.E.	5	1 0	355	26·7	33·00	194	142
D	Tettenhall Waterworks	B. L. McMillan, Esq.	5	0 10	468	..	32·14	184	137
D	Shifnal (Weston Park)	Earl of Bradford	5	1 6	400	27·3	29·17	193	132
D	Norbury Junction	Canal Engineer, L.M. & S.R..	5	1 0	332	28·0	28·69	175	134
D	Market Drayton (Old Springs)*old g.*	F. E. Harding, Esq.	5	1 4	422	28·9	27·20	202	136
D	Maer Hall Gardens	Miss Harrison, M.B.E.	8	1 3	390	32·5	33·96	183	154
	3.—TRENT—Right Bank Tributaries. 518 sq. mi.								
D	West Bromwich (+A)	A. D. Greatorex, Esq., C.E..	8	1 7	543	26·2	31·78	171	131
d	W. Bromwich (Nicholls St.)	H. E. Howle, Esq.	5	1 1	537	..	(30·46)	(173)	(123)
D	Walsall (Bescot Sewage Farm)	J. Taylor, Esq., C.E.	5	0 11	376	26·9	28·90	205	136
D	Walsall (Wednesbury Sew. Wks.)	G. Wicks, Esq.	5	1 0	378	27·9	29·29	188	130
D	Walsall (Gorway)	J. Cleland, Esq.	5	1 0	440	..	28·52	168	128
D	Darlaston (Sewage Works)	S. E. Hammonds, Esq.	8	1 6	393	..	27·16	182	123
D	Bilston (The Lunt Outfall)	A. F. B. Sidwick, Esq., C.E..	8	1 0	419	27·3	28·81	189	132
D	Aldridge (Bourne Vale)	F. J. Dixon, Esq., C.E.	5	1 0	419	25·1	30·84	169	121
D	Shenstone (Little Hay)	F. J. Dixon, Esq., C.E.	5	1 0	298	..	28·69	175	126
D	Brownhills	S. Harrison, Esq., C.E.	8	1 0	492	26·8	35·91	177	135
D	Chasetown	Cannock Chase Colliery Ltd.	5	1 0	508	..	30·61	181	137
D	Brewood (Slade Heath P.S.)	F. J. Dixon, Esq., C.E.	5	1 0	340	24·9	29·22	178	132
D	Brewood (Belvide Reservoir)	Canal Engineer, L.M.&S.R..	5	1 0	367	..	31·04	206	145
D	Bishopswood	Rev. A. E. Brown	5	1 2	420	..	28·25	194	129
D	Lichfield (St. John Street)	The late Dr. F. M. Rowland, C.B.E.	5	1 0	269	27·5	29·90	200	129
D	Hednesford (Scout House) *new g.*	F. J. Dixon, Esq., C.E.	5	1 0	702	..	30·92	176	137
D	Rugeley (Longdon Lodge)	F. J. Dixon, Esq., C.E.	5	1 0	413	26·1	28·40	166	134
D	Lichfield (Hanch Reservoir)	F. J. Dixon, Esq., C.E.	5	1 0	259	..	28·02	175	127
D	Brereton	The Headmaster	5	1 3	300	..	29·85	177	135
D	Rugeley (Slitting Mill)	F. J. Dixon, Esq., C.E.	5	1 0	299	..	28·70	171	130
D	Rugeley (Brindley Bank)	F. J. Dixon, Esq., C.E.	5	1 0	254	26·3	26·80	172	126
D	Rugeley (Nethermoor)	G. H. Grummitt, Esq.	5	1 0	300	29·2	29·68	181	119
D	Milford Waterworks	W. Plant, Esq., C.E.	5	1 0	246	27·5	28·85	178	135
D	Stafford (Victoria Pleasure Gnd.)†	W. Plant, Esq., C.E.	5	1 6	249	27·2	29·45	180	130
D	Eccleshall (Johnson Hall)	Major W. Moat	5	1 2	400	27·5	29·74	190	140
D	Eccleshall (Sugnall Hall)	C. E. Lowe, Esq.	5	1 0	430	..	33·18	201	152
d	Stone (Meece House)	Head Gardener	5	1 2	750	28·3	29·89	..	..
D	Stone (Meaford Hall)	Lt.-Col. W. S. W. Parker Jervis, D.S.O..	5	0 10	325	29·9	34·53	220	159
D	Standon (Hatton W.W.)	R. C. Frain, Esq., C.E.	5	1 0	355	29·0	31·78	207	154
D	Whitmore, Pumping Station	L. M. & S. Rly.	5	1 0	385	..	30·73	183	146

† Previously at Corporation Depot.

DIVISION VI—WEST MIDLAND COUNTIES—(*con.*).

	STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1932. Rainfall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
	STAFFORDSHIRE—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
	3.—TRENT—Right Bank Tributaries—(*cont.*).								
D	Newcastle-under-Lyme	W. R. Arundel, Esq.	5	3 0	400	..	30·87	165	139
D	Basford (Sewage Works)	Thomas Dunn, Esq.	5	1 0	385	..	30·31	177	146
	4.—TRENT—Left Bank Tributaries. 193 sq. mi.								
D	Burton Reservoir	F. J. Dixon, Esq., C.E.	5	1 0	309	25·1	28·77	168	126
D	Burton (Shobnall)	Messrs. Bass & Co., Ltd.	5	1 0	157	24·6	27·25	186	129
D	Burton (Borough Hospital)	Dr. J. M. Cowie	5	1 0	220	..	29·76	172	133
D	Stone (Alleyne's Grammar Sch.)	H. Malcolm Fraser, Esq.	5	1 0	415	29·4	29·14	182	137
D	Stone (Idlerocks)	Mrs. Wedgwood	5	1 0	740	32·7	33·10	178	151
D	Longton (The Meir)	R. C. Frain, Esq., C.E.	5	1 0	617	30·2	31·74	181	145
D	Hanley Sewage Works	W. H. Makepeace, Esq.,	5	1 0	386	..	28·57	191	135
	5.—TRENT—Dove. 250 sq. mi.								
D	Rocester (Dove Leys)	Sir Percival Heywood, Bt.	5	1 6	350	33·5	32·93	188	145
D	Oakamoor (Lightoaks)	M. A. Bolton, Esq.	5	1 6	650	..	32·55	200	143
D	Ashbourne (Mayfield House.) (+A)	Graham C. Lawson, Esq.	8	1 0	374	32·3	30·45	183	136
D	Ilam School	J. R. McKnight, Esq.	5	0 8	450	..	38·49	203	151
D	Cheddleton (County Mental Hosp.)	Mrs. Menzies	5	1 0	550	..	36·41	192	141
D	Alstonfield (The Manor)	B. R. S. Pemberton, Esq.	5	1 0	920	39·1	38·00	210	157
D	Leek (Wall Grange P. Stn.)	R. C. Frain, Esq., C.E.	5	1 0	457	34·7	33·17	179	144
D	Leek (Hillesdon)	A. Y. Worthington, Esq.	5	1 0	750	37·2	34·61	211	146
D	Leek (Haregate Hall)	Mr. R. Sutton	5	0 9	680	36·9	36·21	209	149
M	Leek (Swains Moor)	W. E. Beacham, Esq., C.E.	5	1 1	993	..	38·31	..	..
M	Leek (Withens, Upper Hulme)	W. E. Beacham, Esq., C.E.	5	1 1	1084	..	37·21	..	..
	WORCESTERSHIRE. (Area, 751 sq. mi.)								
	1.—SEVERN—Right Bank Tributaries. 231 sq. mi.								
D	Redmarley (Haselden)	Miss F. L. Newbury	5	0 5	280	25·3	32·12	172	128
D	Upton-on-Severn (The Eades)	Roger D. Tennant, Esq.	5	0 9	100	26·9	30·54	213	128
D	Malvern (British Camp Res.)	W. Osborne Thorp, Esq., C.E.	5	1 0	667	28·5	31·34	163	124
D	Malvern (Barnard's Green)	W. Osborne Thorp, Esq., C.E.	5	1 0	130	..	31·91	169	114
D‖	Malvern (Belle Vue House)	A. Mander, Esq.	5	4 0	520	29·4	34·54	198	133
D	Malvern (Free Library)	W. Osborne Thorp, Esq., C.E.	5	1 0	377	27·6	33·36	186	121
D	Malvern (St. James' Road)	Rev. F. H. Fowler	5	1 3	300	..	32·52	180	123
D	Malvern (Hornyold Road)	The late Rev. T. Wolseley Lewis	5	1 0	492	28·3	31·95	171	124
D	West Malvern	W. Osborne Thorp, Esq., C.E.	5	1 0	832	28·9	33·75	178	132
D	Knightwick Sanatorium	Dr. H. Gordon-Smith	5	1 0	300	25·9	30·90	185	127
D	Worcester (Diglis Lock)	J. E. Bradley, Esq.	5	1 0	49	24·7	30·69	178	117
D	Martley Rectory	Rev. J. F. Hastings	5	1 0	220	26·7	30·71	190	132
d	Shelsley Beauchamp	W. Lionel Moore, Esq.	5	0 10	132	..	(30·15)	..	..
D	Ombersley (Holt Lock)	J. E. Bradley, Esq.	5	1 1	55	25·3	30·74	172	127
D	Stanford Rectory	Rev. J. B. Hewitt	5	1 1	360	28·4	31·33	168	130
D	Stockton-on-Teme (Eardiston)	Miss M. Wallace	5	1 0	200	26·7	31·11	173	130
D	Stourport (Astley Town)	J. Armytage Batley, Esq.	5	0 11	175	25·5	29·34	184	133
D	Stourport (Dunley Hall)	Sir Sidney Lea, Bt.	5	1 0	240	..	27·41	177	119
D	Bewdley (Winterdyne)	Miss K. M. Sturt	5	1 0	175	25·9	28·04	187	128
	2.—SEVERN—Left Bank Tributaries. 194 sq. mi.								
D	Earl's Croome (Levant Lodge)	F. W. Burnett, Esq.	5	2 0	110	26·3	30·76	189	145
d	Kempsey (Napleton Ho.)	Major H. Berkeley Hill	5	1 3	100	26·9	28·52	..	114
D	Kempsey Vicarage	Rev. E. B. R. de Jersey	5	0 9	50	..	30·09	178	119
D	Worcester (Waterworks)	W. Ransom, Esq., C.E.	5	1 0	52	23·2	30·39	182	127
d	Worcester (Little Perdiswell)	Miss M. S. Hewitt	5	1 0	100	..	29·79	..	..
D	Worcester (Perdiswell)	The Agricultural Organiser.	5	1 0	95	..	29·61	167	118
d	Worcester (Bevere Lock)	J. E. Bradley, Esq.	5	1 1	52	24·5	29·93	..	..
D	Droitwich (Friar Street Depot)	Borough Surveyor	12	4 0	98	25·4	29·91	173	117
D	Bromsgrove (Tardebigge Res.) *new g*	A. J. Cullis, Esq., C.E.	5	1 0	455	27·5	28·72	184	132
D	Bromsgrove (Burcot P. S.)	R. S. Broadley, Esq.	5	1 0	432	..	27·95	176	131
D	Barnt Green (Upwood)	Miss M. Gibbins	5	1 0	650	..	29·36	201	141
D	Stourport (Lincombe Lock)	J. E. Bradley, Esq.	5	1 0	62	25·6	28·73	178	126
D	Bromsgrove (Washing Stocks P. S.)	R. S. Broadley, Esq.	5	1 0	366	..	27·75	178	130
D	Bewdley (C. E. School)	J. Bates, Esq.	8	1 0	70	26·4	27·63	182	124

‖ Exposure not orthodox.

DIVISION VI—WEST MIDLAND COUNTIES—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Rain-gauge: Aver-age Rain-fall.	1932. Rain-fall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
WORCESTERSHIRE—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
2.—SEVERN—Left Bank Tributaries—(*con.*).								
D Kidderminster (Pumping Stn.)	Sanitary Inspector	5	1 0	103	..	27·89	198	122
D Kidderminster (Park Hall)	K. H. Wilson, Esq.	5	1 0	200	25·7	29·29	198	131
D Bewdley (Elan Aqueduct)	J. W. Wilkinson, Esq., C.E.	5	1 0	91	26·7	30·99	193	146
D Clent Hall	Miss H. M. Wilson	5	1 0	580	..	32·70	181	140
d Wolverley (Hill Ho.)	J. C. Wilson, Esq.	5	0 9	250	..	29·79	(186)	(132)
D Halesowen (Romsley)	F. J. Dixon, Esq., C.E.	5	1 0	614	30·6	32·22	182	144
D West Hagley (Glenthorpe)	W. Nock, Esq.	5	1 0	400	28·1	32·28	199	140
D Pedmore (The Dene)	T. Grazebrook, Esq.	5	0 9	340	26·5	29·72	187	138
D Stourbridge (Pumping Station)	G. P. Deeley, Esq.	8	1 0	212	27·1	31·73	175	132
D Dudley (Priory Hall)	F. H. Gibbons, Esq., C.E.	8	1 0	584	..	27·75	184	132
Dudley (Trindle House) *new g*	S. Staffs. Mines Drain. Comrs.	5	1 0	575	..	29·93	..	..
3.—SEVERN—Upper Avon. 260 sq. mi.								
D Bredon (The Croft)	Jasper Lambert, Esq.	5	1 1	120	24·5	34·20	200	136
D Birlingham Rectory	Rev. C. Price	5	1 0	70	..	29·03	173	122
D Defford (Upper St.)	A. W. Butler, Esq.	5	2 6	107	24·0	28·58	184	121
D Evesham (Bengeworth)	Messrs. Ross Bros., Ltd.	5	1 0	128	22·9	29·28	172	136
D Evesham (Sewage Works)	J. Abbott, Esq., C.E.	5	1 9	85	22·6	28·28	160	120
D Evesham (Port St.)	Messrs. Craven & Co.	5	1 0	100	..	30·72	170	130
Pershore (Three Springs)	C. A. Mumford, Esq.	5	3 0	50	..	28·63	..	..
D Pershore (Southern House)	Miss G. E. Lawson	5	2 3	70	22·2	28·07	180	128
d Pinvin	J. T. Coates, Esq.	5	1 1	114	..	30·39	..	..
d Evesham (Sheriff's Lench)	Dr. G. E. Harthan	5	1 0	350	..	27·18	..	..
Alcester (Cookhill Co. School)	T. Barber, Esq.	5	1 0	400	24·5	27·83	..	..
D Redditch (Hewell Gardens)	Mr. F. Molyneux	5	1 0	469	27·7	29·66	184	134
D Alvechurch (Bordesley Hall)	The late A. H. Wiggin, Esq.	12	4 0	490	28·5	27·68	162	133
D Alvechurch (Fairfield)	D. McMichael, Esq., J.P.	5	1 0	400	29·4	29·99	184	131
D Bromsgrove (Lr. Bittall Res.) *new g*	A. J. Cullis, Esq., C.E.	5	1 0	457	..	28·66	191	134
4.—THAMES—Windrush & c. 10 sq. mi.								
5.—TRENT—Right Bank Tributaries. 56 sq. mi.								
D Halesowen (Frankley)	J. W. Wilkinson, Esq., C.E.	5	0 10	571	30·7	32·11	208	152
D Northfield (Frankley Lodge Rd.)	A. A. Barnes, Esq., C.E.	5	1 0	548	..	31·81	202	144
D Oldbury (Barnford Hill Pk.)	W. Greenwood, Esq., C.E.	5	0 9	607	..	32·23	185	139
WARWICKSHIRE. (Area, 902 sq. mi.)								
1.—SEVERN—Upper Avon. 603 sq. mi.								
D Long Compton (Weston Park)	Mrs. H. A. Warriner	8	1 0	510	26·5	31·59	145	119
D Tredington	N. H. Walton, Esq.	5	1 0	200	..	30·11	167	120
d Stratford-on-Avon (Crimscote)	Mrs. E. Canning	5	1 1	250	..	29·10	..	..
d Kineton (Kineton House)	J. Fielden, Esq., J.P.	5	1 6	280	..	27·66	..	136
D Stratford-on-Avon (Milcote)	F. W. Jones, Esq., C.E.	5	1 6	122	23·6	26·76	153	110
D Stratford-on-Avon (Avonfield)	Miss M. A. Everard	5	0 11	134	24·2	28·22	183	119
D Stratford-on-Avon (Shottery Hall)	R. C. Carter, Esq.	8	1 0	140	23·9	27·50	183	117
D Bidford (Moor Hall) (+A)	E. H. Cubberley, Esq.	5	1 0	125	24·0	27·59	172	117
d Temple Grafton Court	L. Lonsdale, Esq.	8	1 3	270	24·8	26·71	..	..
d Alcester (Ragley Hall)	Mr. C. Harding	5	1 0	270	25·8	28·22	..	123
Ashorne (Victoria Cottage)	G. T. Osborn, Esq.	5	1 0	160	24·7	24·50	..	..
D Stratford-on-Avon (Snitterfield)	F. W. Jones, Esq.	5	1 6	274	25·2	27·22	175	119
D Southam (Stockton House)	G. B. Blyth, Esq.	6	1 4	394	23·1	23·43	173	120
D Studley College	The Head Mistress	5	0 9	235	27·0	27·32	169	121
D Warwick Castle Gardens	Mr. H. F. Smale	5	1 0	197	25·3	27·90	178	121
Leamington (Radford House)	C. E. G. Hatherell, Esq.	5	1 2	240	24·9	26·45	162	118
D Leamington (Pump Room Gdns.)	Medical Officer of Health	8	1 0	165	24·0	26·81	162	123
D Leek Wootton (The Lodge)	W. F. Mitchell, Esq.	5	1 0	249	..	28·85	180	130
D Dunchurch Lodge Gardens	Major H. S. Cayzer	5	1 0	380	24·4	28·23	167	124
d Stretton-on-Dunsmore (Manor Ho.)	Mrs. Lister-Kaye	5	1 0	280	..	29·09	..	122
D Rugby (Bilton Grange) *new g*	Mr. J. S. Buckby	5	1 0	400	..	26·87	160	116
D Rugby (Caldecott)	Headmaster, Rugby School	5	1 0	383	25·6	26·78	161	119
D Rugby (Avon W.W.)	W. H. Spicer, Esq., C.E.	5	1 0	282	..	26·02	167	122

DIVISION VI—WEST MIDLAND COUNTIES—(*con.*).

	STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1932. Rainfall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
	WARWICKSHIRE—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
	1.—SEVERN—Upper Avon—(*con.*).								
d	Ryton-on-Dunsmore (Ryton Ho.)	Charles Browett, Esq.	5	1 2	260	26·0	32·06	..	124
D	Coventry (Whitley P. S.)	City Engineer, Coventry	8	1 0	238	..	27·25	155	123
D	Coventry (Stoke) (+A)	W. R. Griffiths, Esq.	5	1 0	267	..	28·06	168	124
D	Coventry (City Hospital)	E. H. Snell, Esq., M.D.	8	1 0	270	26·0	29·16	172	133
D	Coventry (Keresley Grange)	Miss H. Rotherham	5	0 10	413	27·0	31·60	213	140
D	Astley Vicarage	Rev. I. F. H. Carr-Gregg	5	1 0	440	..	28·94	165	133
	2.—THAMES—Windrush & c., 2 sq. mi.								
D	Little Compton Manor	Mrs. Leverton Harris	5	1 0	450	..	27·94	169	122
	3.—THAMES—Cherwell. 15 sq. mi.								
	4.—TRENT—Right Bank Tributaries. 282 sq. mi.								
D	Northfield (Wych Elm)	J. B. Shewell, Esq.	5	1 4	540	29·3	30·25	196	131
d	Solihull (Marsh Cottage)	Ivo L. Currall, Esq.	5	1 0	420	25·8	(30·09)	..	..
D	Northfield (Bartley Res. No. 1)	A. A. Barnes, Esq., C.E.	5	1 0	600	..	31·37	193	143
D	Moseley (Cotton Lane)	U. A. Baker, Esq.	5	1 0	450	..	31·07	186	141
D	Bartley (Bromwich Wood)	J. W. Wilkinson, Esq., C.E.	5	1 0	611	..	31·87	193	145
D	Selly Oak (Bournville)	Messrs. Cadbury Bros., Ltd.	8	1 0	469	29·1	32·34	202.	136
d	Selly Oak (Witherford Way)	Mrs. Neave	8	1 6	530	..	31·26	..	..
D	Selly Oak (Frederick Rd.)	W. Garden, Esq.	5	1 2	540	29·2	31·62	189	147
D	Birmingham (Sparkhill)	D. H. Owen, Esq.	5	1 0	425	28·1	31·29	182	127
D	Birmingham (Edgbaston)	A. J. Kelley, Esq.	8	1 6	535	26·5	30·96	189	132
D	Birmingham (Carpenter Road)	L. Ashby Bolton, Esq.	5	1 1	480	28·1	30·99	205	142
D	Nuneaton (The Quarry)	Miss K. E. Smith	5	1 0	321	..	31·46	203	136
D	Ullesthorpe (High Cross)	J. Parker Toone, Esq.	5	1 0	..	..	29·68	193	132
D	Whitacre (Birmingham W.W.)	J. W. Wilkinson, Esq., C.E.	5	1 0	269	26·0	26·78	183	120
D	Birmingham (Erdington) *new g.*	J. W. Wilkinson, Esq., C.E.	5	1 0	442	..	30·78	182	140
D	Minworth Greaves	Birmingham Drainage Bd.	8	1 0	259	24·3	28·49	175	127
D	Nuneaton P.S. (*old g.*)	R. C. Moon, Esq., C.E.	8	1 3	269	..	25·40	170	113
D	Nuneaton (Hartshill Sewage Wks.)	R. C. Moon, Esq., C.E.	5	1 2	288	..	29·17	172	124
D	Sutton Coldfield (The Park)	Borough Surveyor	5	1 0	370	26·4	29·31	173	133

DIVISION VII—NORTH MIDLAND COUNTIES.

	LEICESTERSHIRE. (Area, 824 sq. mi.)								
	1.—SEVERN—Upper Avon. 41 sq. mi.								
D	Welford (The Reservoir)	Grand Union Canal Co.	5	1 6	430	25·1	30·55	193	137
	Lutterworth (Leicester Rd.)	M. W. Binns, Esq.	5	1 0	430	..	27·55	..	..
d	Lutterworth (Waterworks)	The Surveyor	8	1 9	414	..	27·49	..	..
	2.—WELLAND. 96 sq. mi.								
D	Market Harborough (Gardiner St.)	G. C. Wooldridge, Esq.	5	1 0	280	..	23·89	190	120
D	Market Harborough (Rose Hill)	G. O. Nicholson, Esq.	5	1 0	350	24·7	26·40	158	120
D	Kibworth Beauchamp	Dr. E. V. Phillips	5	1 0	390	25.7	25·59	161	132
d	Knossington Rectory	Rev. G. G. Wilkinson	5	1 0	580	26·2	29·43	(154)	(129)
	3.—WITHAM. 7 sq. mi.								
	4.—TRENT—Right Bank Tributaries. 680 sq. mi.								
D	Frolesworth	W. P. Widdowson, Esq.	5	1 0	370	..	25·63	163	118
D	Peatling Magna (Peatling Ho.)	Dr. C. Royds Jones	5	1 1	354	..	24·01	157	114
D	Hinckley (Edward Street)	E. H. Salter, Esq.	5	1 0	425	..	29·61	190	135
D	Wistow Hall Gardens	The Lord Cottesloe, C.B.	5	1 0	309	23·6	26·13	157	125
D	Countesthorpe (Wigston Sew. Fm.)	The Surveyor	8	0 9	257	22·8	24·33	175	111
D	Leicester (Stoughton Drive)	Theodore B. Ellis, Esq.	5	1 0	315	..	27·04	165	131
D‖	Leicester (Town Hall Square) (+A)	A. T. Gooseman, Esq., C.E.	5	1 0	212	..	23·44	162	120
D	Leicester City Mental Hosp.	The Steward	8	1 0	266	24·2	26·87	168	127
D	Leicester (Gilroes Cemetery)	A. T. Gooseman, Esq., C.E.	5	1 0	285	..	26·77	168	132
D	Leicester (Groby Road)	Miss V. D. Ellis	5	1 0	244	25·0	28·07	189	127
D	Osbaston Hall	Sir Thomas Cope, Bart.	8	1 0	393	..	26·54	188	132
D	Lowesby Hall Gdns.	Mr. Neil McMullan	5	1 0	380	..	29·76	202	147

‖ Record too low, gauge over-sheltered.

DIVISION VII—NORTH MIDLAND COUNTIES—(*con.*).

	STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1932. Rainfall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
	LEICESTERSHIRE—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
	4.—TRENT—Right Bank Tributaries—(*con.*).								
D	Thornton Reservoir	G. T. Edwards, Esq., C.E...	8	1 2	370	26·2	28·66	172	138
D	Cropstone (Bradgate Res.)	G. T. Edwards, Esq., C.E...	8	1 0	245	27·2	28·98	196	131
D	Barkby Hall	Victor R. Pochin, Esq.	5	1 0	227	24·5	29·47	174	131
D	Swithland (The Brand)	G. T. Edwards, Esq., C.E...	8	1 0	171	26·0	30·98	178	136
d	Ashby-de-la-Zouche	Miss A. I. Bayford	5	0 10	450	..	28·50	..	..
D	Barrow-upon-Soar (The Mount)	Mrs. C. Stuart Thomson...	5	1 6	..	23·6	26·22	160	123
D	Charnwood Forest (Charley Hall)	Mrs. J. B. Martin	5	0 9	450	..	29·33	155	131
D	Hoby (The Grange)	A. A. Ironside, Esq.	5	1 0	235	..	27·18	167	124
D	Asfordby Rectory	Rev. W. R. Finch	5	0 10	212	..	25·24	164	126
D	Asfordby Hill (Ironworks)	Stanton Ironworks Co., Ltd..	5	1 1	324	..	26·23	180	129
D	Melton Mowbray (White Lodge)	H. K. Barker, Esq.	8	1 6	237	22·9	26·04	188	130
D	Charnwood For. (Blackbrook R.)	W. Granger, Esq., C.E.	5	1 0	379	26·4	28·18	149	128
D	Loughborough (Park Road)	W. Llewellyn Mold, Esq....	5	1 0	190	23·7	27·00	171	124
D	Loughborough (Nanpantan Res.)	W. Granger, Esq., C.E.	5	1 0	269	26·1	28·93	176	131
D	Loughborough (The Widenings)	Mrs. A. Butler	5	1 0	197	24·5	27·45	195	136
D	Loughborough (Sewage Farm)	W. Granger, Esq., C.E.	8	1 0	135	23·1	28·88	168	119
D	Burton-on-the-Wolds (Burton Hall)	Earl of Huntingdon.	5	1 0	270	24·2	28·13	159	139
D	Prestwold Hall Gardens	Mr. W. Coe.	8	1 0	209	24·7	27·49	165	125
D	Belvoir Castle Gardens.	The Duke of Rutland, K.G..	8	1 0	259	25·1	28·15	185	122
	RUTLAND. (Area, 152 sq. mi.)								
	1.—WELLAND. 125 sq. mi.								
D	Uppingham (Ridlington)	C. Wortley, Esq.	5	1 0	527	25·3	26·36	173	122
D	Hambleton Manor	Major J. Orr-Ewing, M.C...	5	1 0	400	23·9	26·01	165	119
	2.—WITHAM. 5 sq. mi.								
	3.—TRENT—Right Bank Tributaries. 22 sq. mi.								
	LINCOLNSHIRE. (Area, 2,646 sq. mi.)								
	1.—NENE. 100 sq. mi.								
D	Tydd (North Level Sluice)	Mr. S. Fovargue.	5	1 0	10	..	21·96	157	105
	2.—WELLAND. 341 sq. mi.								
d	Crowland	F. Husband-Clutton, Esq, M.R.C.S.	5	1 0	10	..	23·12	..	..
D	Market Deeping (Wilsthorpe)	W. H. A. Court, Esq., C.E...	8	1 0	51	..	22·37	150	117
D	Deeping St. Nicholas	T. A. Pick, Esq.	5	0 11	11	..	19·71	181	117
D	Spalding (Pode Hole)	H. Bain, Esq.	8	1 3	12	23·5	25·35	224	129
D	Bourne (Guthram)	F. Sanderson Robins, Esq., C.E.	8	1 6	19	..	22·33	165	121
d	Spalding (Spalding Marsh)	Messrs. Seymour Cobley, Ltd.	5	0 8	0	..	22·94	..	114
	3.—WITHAM & C. 1085 sq. mi.								
d	Stainby Rectory	Rev. W. L. de B. Thorold..	4	0 9	496	*25·5*	25·60	..	108
D	Denton Manor	Sir C. G. E. Welby, Bt., C.B.	5	1 0	310	*24·9*	29·52	190	129
D	Grantham (Saltersford)	H. Preston, Esq.	5	0 6	188	..	28·10	178	119
	Grantham (Central School)	The Headmaster	5	0 8	192	..	(27·96)	..	..
d	Culverthorpe	E. H. Davies, Esq.	5	1 2	200	..	28·35	..	122
D	Wyberton (Tytton Hall)	V. A. C. Durand, Esq.	5	1 0	10	..	24·96	175	119
d	Fishtoft School	W. Rimington, Esq.	5	1 0	0	..	21·93	..	..
D	Boston (Black Sluice, Skirbeck)	F. S. Robins, Esq., C.E.	8	1 3	11	22·8	25·41	196	127
D	Boston (Grand Sluice)	F. H. Tomes, Esq., C.E.	8	1 0	10	*23·2*	23·85	185	114
D	Boston (Bargate End)	A. O. Scrivener, Esq.	8	1 4	9	..	22·34	175	110
D	Sleaford (Kesteven Mental Hos.)	Dr. J. R. Macphail.	5	1 0	100	..	28·88	183	123
D	East Heckington	V. A. C. Durand, Esq.	5	1 0	15	..	24·83	159	104
d	Leasingham Rectory	Rev. A. R. Tucker	5	1 6	100	..	(24·33)	..	(117)
D	Cranwell Aerodrome (+A)	The Meteorological Office..	8	1 0	240	23·2	28·83	179	116
D	Anwick Vicarage	Rev. W. Lee.	5	1 0	37	..	22·06	167	112
d	New Leake (Lade Bank Engine)	V. A. C. Durand, Esq.	5	1 0	10	*23·2*	22·08	..	112
D	Carrington Grange	T. J. Ward, Esq.	5	6 0	15	..	25·12	160	124
D	Wellingore	Rev. Canon H. Powell Smith	5	1 0	246	..	26·08	222	125
D	Navenby Rectory	J. Thompson, Esq.	5	1 0	218	*24·9*	25·65	182	127
D	Carlton-le-Moorland	J. Brocklebank, Esq.	5	1 2	50	..	26·19	187	126
D	Blankney Hall Gardens	Mr. N. G. Cleaver.	5	0 9	57	..	24·74	196	126
D	East Kirkby (E. Kirkby Manor)	Capt. R. S. Fieldsend.	5	1 0	35	..	26·17	199	135

DIVISION VII—NORTH MIDLAND COUNTIES—(*con.*).

	STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1932. Rainfall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
	LINCOLNSHIRE—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
	3.—WITHAM & C.—(*con.*).								
d	Revesby Reservoir	T. H. Tyson, Esq.	5	2 0	124	24·5	23·38	..	118
D	Woodhall Spa (Galen House)	J. Collins, Esq.	5	1 6	38	..	21·57	173	118
d	Woodhall Spa	J. Collins, Esq.	5	1 0	40	..	21·83	171	116
D	Horncastle	F. J. Harvey, Esq.	5	1 0	120	..	23·39	190	117
D	Lincoln (Swallowbeck)	W. R. Pennell, Esq.	8	1 0	34	..	21·65	191	123
d	Lincoln (Skellingthorpe Hall)	A. H. Bergne-Coupland, Esq.	5	1 0	40	23·1	22·80	..	120
D	Hackthorn Hall	E. W. Cracroft, Esq.	5	4 8	102	..	23·28	203	132
D	Springthorpe Rectory	Rev. B. Davies	5	1 0	73	..	22·57	175	123
	4.—GREAT EAU & C. 443 sq. mi.								
D	Skegness (Marine Gardens)	F. A. Jenkins, Esq.	8	1 0	15	23·3	21·35	169	112
D	East Keal Rectory *new* g	Rev. R. H. Simpson	5	0 6	180	..	24·35	194	127
D	Spilsby	J. E. Bolt, Esq.	5	1 4	124	..	25·79	179	136
D	Hagworthingham (Glebe House)	Mr. R. Wright	5	1 0	240	..	24·36	175	132
D	Mablethorpe (Trusthorpe Hall)	I. N. Woodiwiss, Esq.	8	1 3	10	..	25·75	204	137
D	Mablethorpe	The Surveyor	5	1 0	7	..	22·77	186	121
D	Louth (Westgate)	Rev. W. E. Yates	5	0 9	120	28·0	24·63	208	131
D	Binbrook (West House)	Mrs. C. Fieldsend	5	1 2	309	..	28·80	176	137
D	Wold Newton Manor	W. Maurice Wright, Esq.	5	1 6	230	..	25·87	220	139
D	Grainsby Hall	Mr. J. Butters	5	1 0	75	..	25·73	220	136
	5.—HUMBER—Right Bank Tributaries. 428 sq. mi.								
D	North Willingham House	Mrs. Charles Wright	5	3 0	125	..	25·52	221	148
D	Brigg (Thornholme)	E. I. Brown, Esq.	5	1 5	22	..	20·76	187	112
D	Brigg (Wrawby Road)	A. R. Haynes, Esq.	5	1 1	22	..	21·26	185	112
D	Cleethorpes (Kings Parade)	Urban District Council	5	1 0	23	..	20·91	175	113
D	Grimsby (Portland Place)†	W. J. Wood, Esq., C.E.	5	2 0	20	..	23·33	176	127
D	Grimsby (Westlands)	Major G. L. Bennett	5	1 0	23	..	22·70	181	128
D	Brocklesby Park	Mr. J. Chisholm	5	1 0	90	..	23·18	197	135
D	Ulceby (Wootton Lodge)	Mr. F. W. Prentice	5	1 5	100	..	23·79	186	122
D	Horkstow	E. J. Turton, Esq.	5	1 0	75	..	22·74	162	136
D	Ferriby Sluice	F. Straw, Esq.	5	1 0	18	..	21·80	194	122
	6.—TRENT—Right Bank Tributaries. 172 sq. mi.								
d	Woolsthorpe	L. and N.E. Rly.	5	1 3	182	..	26·77	..	121
D	Torksey	Miss M. Burtt	5	3 0	18	..	21·86	171	116
d	Gate Burton Hall	The Hon. Mrs. Sandars	5	1 0	97	..	21·57	..	105
	7.—TRENT—Left Bank Tributaries. 77 sq. mi.								
D	Wroot (S. Level Pump Station)	Mr. A. J. Trafford	10	1 6	8	..	21·43	182	111
d	Crowle (N. Level Pump Station)	Mr. H. G. Trafford	5	2 0	10	*22·6*	22·56	..	..
D	Crowle (Snowdrop Villa)	Crowle Drainage Commission	5	1 0	15	..	22·35	192	121
	NOTTINGHAMSHIRE. (Area, 843 sq. mi.)								
	1.—WITHAM. 10 sq. mi.								
	2.—TRENT—Right Bank Tributaries. 218 sq. mi.								
D	Sutton Bonnington Agric. Coll. (+A)	The Principal	5	1 0	158	21·7	23·80	150	117
D	Plumtree (Normanton-on-Wolds)	Capt. T. A. M. Hill	8	2 0	170	24·0	25·51	170	122
D	Ruddington (Westlands)	J. D. Walker, Esq.	5	1 0	100	24·3	24·30	162	121
D	Nottingham (Wilford Hill Res.)	F. W. Davies, Esq., C.E.	8	1 0	295	23·1	24·55	170	119
D	East Bridgford	G. W. Beaumont, Esq.	5	1 0	150	..	25·97	157	118
D	Newark	J. H. Clarke, Esq., C.E.	5	0 9	43	23·4	27·86	204	126
d	North Collingham	Miss M. Bergne-Coupland	5	1 6	40	..	24·96	..	122
	3.—TRENT—Derwent. 2 sq. mi.								
	4.—TRENT—Erewash. 42 sq. mi.								
D	Nottingham (Strelley)	late Major T. L. K. Edge	8	1 0	386	26·2	27·06	191	123
D	Nottingham (Strelley Hall) *new*	late Major T. L. K. Edge	5	1 0	376	..	26·48	154	122
D	Bulwell (Watnall Reservoir)	F. W. Davies, Esq., C.E.	8	1 0	468	29·0	28·84	177	133
D	Eastwood Waterworks	F. W. Davies, Esq., C.E.	8	1 3	243	25·9	27·53	188	121
D	Eastwood Hall	Messrs. Barber, Walker & Co., Ltd.	5	1 0	218	..	27·94	172	128
D	Eastwood (Moorgreen Res.)	L. and N. E. Rly. Co.	5	2 0	301	27·4	27·96	185	128
D	Annesley (Selston W.W.)	S. Maylan, Esq.	5	1 0	475	26·2	26·79	151	113
D	Kirkby-in-Ashfield (Higher Sch.)	W. A. Sewell, Esq.	8	1 0	542	..	28·91	191	123

† Previously at Abbey Road.

DIVISION VII—NORTH MIDLAND COUNTIES—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Height of Ground above Sea Level.	Average Rainfall.	1932. Rainfall.	Days with ·01 in. or more.	Days with ·04 in. or more.
NOTTINGHAMSHIRE—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
5.—TRENT—Left Bank Tributaries. 569 sq. mi.								
D Attenborough	R. F. T. Granger, Esq.	8	1 0	885	..	25·09	183	107
D Beeston (Council Depot)	E. A. Bush, Esq.	5	1 0	121	24·5	26·61	168	123
D Bramcote Reservoir	F. W. Davies, Esq., C.E.	8	1 0	327	..	24·53	171	118
D Nottingham (Trent Lane) (+A.)	T. Wallis Gordon, Esq., C.E.	8	1 0	83	22·5	24·83	159	115
D Nottingham (The Castle)	T. Wallis Gordon, Esq., C.E.	8	1 0	192	23·6	25·18	174	117
D Nottingham (Colwick Hill Res.)	F. W. Davies, Esq., C.E.	8	1 0	314	..	25·27	162	117
D Nottingham (Burford Road)	A. B. Tinn, Esq.	5	1 0	170	25·3	27·12	170	120
Nottingham (Stoke Bardolph)	T. Wallis Gordon, Esq., C.E.	8	1 0	66	22·6	24·03	..	..
D Nottingham (Mapperley Hill)	Dr. G. L. Brunton	8	1 0	400	24·9	26·26	170	117
D Bagthorpe (Isolation Hospital)	Dr. Cyril Banks	8	2 0	190	25·3	26·92	183	114
D Nottingham (Basford W.W.)	F. W. Davies, Esq., C.E.	8	1 0	168	24·3	25·84	161	109
d Burton Joyce Waterworks	F. W. Davies, Esq., C.E.	8	1 0	65	25·2	26·45	..	118
Bulcote (Corporation Farm)	T. Wallis Gordon, Esq., C.E.	10	1 3	65	23·6	26·93	..	..
D Bulwell (Bestwood W.W.)	F. W. Davies, Esq., C.E.	8	1 0	312	25·7	25·52	181	112
D Daybrook (Red Hill Reservoir)	F. W. Davies, Esq., C.E.	8	1 0	404	26·8	28·17	201	119
D Daybrook (Ramsdale Hill Res.)	F. W. Davies, Esq., C.E.	8	1 0	504	28·1	29·71	202	122
D Bulwell Hall Park	T. Wallis Gordon, Esq., C.E.	8	1 0	252	27·3	28·07	177	123
D Papplewick (Waterworks)	F. W. Davies, Esq., C.E.	8	1 0	317	27·0	27·17	160	122
D Southwell (The Residence)	Vn. Acdn. W. J. Conybeare.	5	1 0	100	24·7	25·85	165	118
D Southwell (Elmfield)	Miss S. Gale	5	1 0	137	24·9	25·61	169	109
d Sutton-in-Ashfield (Rushley P.S.)	Messrs. G. & F. W. Hodson.	5	1 0	462	27·1	28·82	..	109
D Sutton-in-Ashfield (Sewage Wks.)	F. J. Grierson, Esq.	5	1 0	453	28·9	28·80	175	125
d Mansfield (Rainworth W.W.)	J. Gibson, Esq., C.E.	5	1 0	360	27·5	26·18	..	115
D Mansfield (Carr Bank)	Borough Surveyor	8	0 10	357	..	28·54	163	130
D Mansfield (West Bank)	W. Pickard, Esq.	8	1 0	405	27·6	28·81	201	129
d Mansfield (Debdale Hall)	Francis N. Ellis, Esq.	5	1 6	400	28·1	28·55	..	125
D Clipstone Waterworks	J. Gibson, Esq., C.E.	5	1 0	225	25·9	25·81	164	109
Warsop	The Surveyor	8	1 0	192	..	25·74	194	120
D Ollerton (Boughton W.W.)	F. W. Davies, Esq., C.E.	8	1 0	141	24·6	23·85	193	112
D Ollerton (Thoresby Gardens)	Mr. A. J. Simmons.	5	1 0	125	26·6	25·33	167	126
D Welbeck Abbey	Mr. Chas. Harris	8	0 10	196	..	26·10	183	117
D Clumber Gardens	The Agent	5	1 0	164	..	26·33	192	122
D Elkesley Pumping Station	Lincoln, W.W.	5	1 0	120	24·0	22·82	155	110
D Worksop (Osberton Gardens)	Mr. A. Nicholson	5	3 0	70	23·8	19·45	182	106
D Retford (Morton Hall)	W. H. Mason, Esq.	9	1 0	140	23·7	23·37	164	102
D Retford (Sewage Disposal Wks.)	R. E. Wilson, Esq.	5	1 0	74	..	24·89	189	120
D Retford (Babworth Hall)	Major J. A. C. Whitaker.	5	1 0	98	22·9	22·85	165	101
D Worksop (Wigthorpe Hill)	R. C. P. Ramsden, Esq.	5	1 0	100	23·7	21·78	166	110
D Worksop (Hodsock Priory) (+A)	Miss E. Mellish	8	1 0	56	23·6	22·55	188	110
Langold Council Sch.	The Head Teacher	5	1 0	150	..	22·27	..	..
D Harworth Colliery	Messrs. Barber, Walker & Co.	5	1 0	120	..	23·21	170	108
D Scrooby	Mr. J. Mallender	5	1 0	40	23·1	23·93	185	112
D Bawtry Hall (The Gardens)	Mr. F. E. Hogbin	5	1 0	31	23·1	26·15	164	117
D Bawtry Council Sch.	J. Rushworth, Esq.	5	1 0	37	..	25·99	172	128
6.—OUSE—Don. 2 sq. mi.								
DERBYSHIRE. (Area, 1,029 sq. mi.).								
1.—MERSEY, UPPER. 93 sq. mi.								
D Fernilee (Upr. Hall Farm) 2	Stockport W.W.	5	1 0	1100	..	43·69	214	172
D Fernilee (Upr. Hall Farm) 1	Stockport W.W.	5	1 0	960	..	45·26	214	172
D Hayfield (Kinder)	Stockport W.W.	5	1 6	940	..	43·33	201	157
D Glossop W.W. (Swineshaw)	Geo. Faulds, Esq., C.E.	12	1 0	733	..	41·50	210	160
Bleaklow Hill (Dowstone Rocks)	Manchester Corpn. W.W.	5	1 0	1718	..	56·30	...	..
Bleaklow Hill (Far Black Clough)	Manchester Corpn. W.W.	5	1 0	1683	..	59·81	..	..
2.—MERSEY—Weaver. 2 sq. mi.								
3.—TRENT—Right Bank Tributaries. 68 sq. mi.								
D Melbourne Vicarage	Rev. E. T. Harcombe	10	1 0	180	..	27·30	171	130
D Repton (The Croft)	H. C. Hayward, Esq.	5	1 2	170	..	29·50	180	127
D Stanton-by-Bridge W.W.	H. Raven, Esq., C.E.	8	1 2	144	24·2	28·02	186	129
4.—TRENT—Dove. 156 sq. mi.								
d Rodsley Pumping Station	The Engineer	5	1 0	405	..	28·33	..	..
D Ashbourne Vicarage	Rev. Canon F. L. Shaw.	5	1 6	500	34·7	32·52	205	151

DIVISION VII—NORTH MIDLAND COUNTIES—(*con.*).

	STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1932. Rainfall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
	DERBYSHIRE—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
	5.—TRENT—Left Bank Tributaries. 84 sq. mi.								
D	Etwall (Blakeley Lodge)	G. Edge Laban, Esq.	5	1 0	190	24·1	26·63	146	129
D	Etwall (Sewage Farm)	Mr. B. Hydes	5	1 8	201	23·2	29·09	148	128
D	Etwall Hall	Col. M. Dawson	5	1 3	235	..	29·21	178	135
D	Mickleover (C. Mental Hospital)	Medical Superintendent	5	1 0	300	24·4	28·15	165	123
	Littleover (The Knoll)	W. Blews Robotham, Esq.	5	1 0	300	25·2	28·54	180	130
D	Littleover (Hilltop)	E. McInnes, Esq.	5	1 0	346	25·8	29·18	186	136
	6.—TRENT—Derwent. 428 sq. mi.								
D	Spondon (Derby Sewage Wks.)	E. H. Bennett, Esq., C.E.	5	1 3	135	25·5	28·75	173	114
D	Spondon Hall	Sir H. Fowler, K.B.E., LL.D.	5	1 0	230	26·7	29·99	188	143
D	Derby (Wild Street)	Messrs. J. Davis & Son, Ltd.	5	1 0	174	..	29·99	179	130
D	Derby (L. M. & S. Railway)	A. F. Bound, Esq.	5	1 0	156	25·1	26·40	153	119
D	Derby (Royal Infirmary)	W. Banks, Esq.	5	1 0	190	26·3	30·27	175	145
D	Derby (The Arboretum)	E. H. Bennett, Esq., C.E.	8	1 0	196	26·2	27·68	178	125
D	Mackworth Vicarage	Rev. W. G. Clark-Maxwell	5	1 0	280	..	28·63	164	132
	Kirk Langley (Langley Hall)	G. W. Peach, Esq.	5	1 5	396	29·4	31·90	182	140
D	Duffield (The Kirkstyles)	Messrs. J. Davis & Son, Ltd.	5	2 0	235	28·3	30·61	180	136
d	Belper (Herbert Strutt School)	The Principal	5	0 8	222	29·9	(28·48)	(171)	(129)
D	Belper (Quarry Bank)	J. Hunter, Esq., C.E.	5	0 10	280	29·7	28·14	179	134
d	Ambergate Reservoir. No. 61	S. B. Winser, Esq., C.E.	5	1 0	700	28·9	30·06	(155)	(129)
d	Wirksworth	The Surveyor, U.D.C.	5	1 1	690	..	32·22	(174)	(128)
D	Whatstandwell (Meerbrk. Sough)	Messrs. G. & F. W. Hodson.	5	1 0	246	33·6	33·57	174	128
D	Brackenfield (Lindway Res.)	R. F. Ward, Esq., C.E.	5	1 0	595	..	32·38	164	130
D	Matlock Bath (Lower Tower)	Miss E. Chadwick	5	1 1	500	33·7	31·74	196	134
D	Matlock (Rockside Hydro.)	J. H. Goodwin, Esq.	5	1 0	637	32·6	31·51	177	141
D	Darley Dale (Whitworth Inst.)	E. Evans, Esq.	5	1 0	361	32·9	31·38	181	138
D	Clay Cross (Press Reservoirs)	Gilbert Frith, Esq., C.E.	8	1 0	810	31·7	31·99	183	131
w	Buxton (Hurdlow Top)	L. M. & S. Rly.	8	1 10	1267	..	47·33	..	..
D	Chatsworth Gardens	Mr. J. G. Weston	5	1 0	436	34·7	30·11	203	141
D	Baslow (Over End)	A. E. Payne, Esq.	5	1 0	500	33·3	32·83	197	148
D	Buxton (Portobello Bar)	F. Langley, Esq., C.E.	8	1 0	1600	55·9	50·75	213	170
D	Buxton (Stanley Moor)	F. Langley, Esq., C.E.	8	1 0	1340	52·1	50·90	212	169
D	Buxton (Burbage Edge)	F. Langley, Esq., C.E.	8	1 0	1400	52·8	48·66	212	165
D	Buxton (Ashwood Dale S.W.)	F. Oliver, Esq.	5	3 0	1070	..	47·25	200	155
D	Buxton (Terrace Slopes)†	Town Clerk	8	1 0	1007	48·4	44·58	201	155
D	Buxton (Lightwood)	F. Langley, Esq., C.E.	8	0 11	1191	..	42·45	207	165
D	Bamford (Engineer's Office) No. 60.	S. B. Winser, Esq., C.E.	8	2 1	510	37·8	38·24	229	169
D	Bamford Filters. No. 70A.	S. B. Winser, Esq.; C.E.	8	1 0	656	39·1	39·02	233	161
w	Froggatt Edge (Stoke Flat)	J. G. Bown, Esq.	5	1 0	960	36·5	36·57	..	..
D	Eyam Rectory	Rev. C. L. O'Ferrall	5	1 0	820	37·8	34·62	173	131
d	Holmesfield (Barbrook Res.)	Gilbert Frith, Esq., C.E.	8	1 0	1080	35·6	36·36	..	140
	Holmesfield (White Edge)	Sheffield Corporation W.W.	5	1 0	1209	..	37·00	..	..
D	Burbage (Lower Burbage). (+A).	Sheffield Corporation W.W.	8	1 0	924	36·2	38·85	204	163
D	Burbage (Parsons House)	Sheffield Corporation W.W.	8	1 0	1309	..	39·43	209	160
	Burbage (Higger Lodge)	Sheffield Corporation W.W.	5	1 0	1225	36·8	39·54	..	..
	Burbage (Upper Burbage)	Sheffield Corporation W.W.	5	1 0	1364	36·1	42·06	..	..
d	Hope (Cement Works)	Messrs. S. & T. Earle, Ltd.	5	1 2	580	..	41·19	..	..
D	Hope (Killhill Bridge). No. 56.	D. W. Chadwick, Esq.	5	1 0	500	40·4	39·50	192	151
d	Bamford (Yorkshire Br. Weir) 59A.	S. B. Winser, Esq., C.E.	5	1 0	540	36·7	38·99	..	..
D	Derwent Vicarage. No. 67.	S. B. Winser, Esq., C.E.	8	1 0	675	43·6	42·23	209	167
M	Derwent (Lockerbrook Plant.) 68.	S. B. Winser, Esq., C.E.	5	1 0	782	47·7	46·27	..	..
D	Derwent Dam. No. 26.	S. B. Winser, Esq., C.E.	8	1 0	790	42·8	45·05	234	169
M	Hayfield (Ashop Head). No. 43.	S. B. Winser, Esq., C.E.	5	1 0	1650	..	49·70	..	..
M	Derwent Dale (Shire Owlers) No. 69A.	S. B. Winser, Esq., C.E.	5	1 0	825	..	44·77	..	..
D	Derwent Dale (Birchinlee) No. 23.	S. B. Winser, Esq., C.E.	8	1 0	870	50·3	52·97	236	168
M	Westend Bridge. No. 66.	S. B. Winser, Esq., C.E.	5	1 0	878	50·2	55·65	..	..
M	Lady Clough Moor. No. 41A.	S. B. Winser, Esq., C.E.	5	1 0	1720	50·3	51·20	..	..
M	Coldharbour Moor (Summit). 39.	S. B. Winser, Esq., C.E.	5	1 0	1670	..	46·00	..	..
D	Derwent Dale (Howden Dam). 17.	S. B. Winser, Esq., C.E.	8	1 0	829	47·7	48·85	236	171
M	Derwent Dale (Ridge Farm). 13A.	S. B. Winser, Esq., C.E.	8	1 0	875	52·4	51·31	..	..
M	Alport Moor (Glethering Cl.). 40.	S. B. Winser, Esq., C.E.	5	1 0	1640	..	50·54	..	..
M	Alport Moor (Glethering Cl.). 40A.	S. B. Winser, Esq., C.E.	5	1 0	1640	..	54·66	..	..
M	Westend Moor (Blacklow Cote). 15.	S. B. Winser, Esq., C.E.	5	1 0	970	51·3	52·13	..	..

†Gauge moved from Devonshire Hospital, August, 1925.

DIVISION VII—NORTH MIDLAND COUNTIES—(*con.*).

	STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Aver-age Rain-fall.	1932. Rain-fall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
	DERBYSHIRE—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
	6.—TRENT—(*con.*).								
M	Westend Moor	No. 10. S. B. Winser, Esq., C.E.	5	1 0	1560	..	51·37	..	..
M	Alport Moor	No. 38A. S. B. Winser, Esq., C.E.	5	1 0	1790	54·4	53·10	..	..
M	Derwent Dale (Slippery Stones)	62. S. B. Winser, Esq., C.E.	5	1 0	908	49·4	52·51	..	..
M	Ridgewalk Moor	No. 9. S. B. Winser, Esq., C.E.	5	1 0	1650	..	52·37	..	..
M	Broadhead Clough	No. 63. S. B. Winser, Esq., C.E.	5	1 0	1005	52·8	53·88	..	..
	7.—TRENT—Erewash. 50 sq. mi.								
D	Long Eaton (The Hall)	H. Raven, Esq., C.E.	8	0 10	105	23·4	24·55	166	114
d	Ilkeston (New Stanton)	Stanton Ironworks Co., Ld.	5	1 6	150	25·2	29·09	..	..
D	Heanor (Sharplow)	J. R. Groom, Esq.	5	1 0	240	..	29·16	184	140
D	Codnor (Cross Hill)	A. F. Pine, Esq.	5	1 0	394	27·7	30·74	190	141
D	Codnor Park	L. M. & S. Rly. Co.	5	1 0	243	..	28·92	201	129
	8.—OUSE—Don. 148 sq. mi.								
D	Chesterfield (Walton San.)	Dr. A. Niven Robertson	5	1 0	450	29·5	29·96	166	118
D	Chesterfield (Linacre Res.)	Chesterfield Water Board	8	1 0	480	30·4	32·80	200	139
D	Chesterfield (Linacre Res.)	Chesterfield Water Board	5	1 0	475	29·7	31·75	200	139
D	Chesterfield (Sewage Works)	S. Thornhill, Esq.	5	1 0	223	24·9	22·12?	172	106
D	Horsley Gate	Miss E. Wilson	5	1 0	650	..	35·88	184	147
d	Spinkhill (Mt. St. Mary's College)	Rev. L. Cardwell, S.J.	5	0 9	340	..	(25·17)	(181)	(106)
	Burbage (Badger Ho.)	Sheffield Corporation W.W.	5	1 0	1138	..	40·86	..	..

DIVISION VIII—NORTH-WESTERN COUNTIES.

CHESHIRE. (Area, 1,027 sq. mi.).

	1.—MERSEY, UPPER. 200 sq. mi.								
D	Langley (Twelve Ashes)	E. Hamson, Esq., C.E.	6	0 9	903	..	39·46	185	150
D	Langley (Trentabank Res.)	E. Hamson, Esq., C.E.	6	0 9	854	..	39·17	185	148
D	Langley (Bottoms Res.)	E. Hamson, Esq., C.E.	5	1 3	664	38·5	38·35	187	148
D	Macclesfield (Leadbeaters Res.)	E. Hamson, Esq., C.E.	5	1 0	608	33·1	33·49	182	140
D	Macclesfield (West Park)	E. Hamson, Esq., C.E.	5	1 0	500	34·1	35·52	186	146
D	Rainow (The Clough)	Miss Anna Neave	5	1 3	815	34·4	37·04	209	150
D	Knutsford (Hazelfield)	H. P. Ashworth, Esq.	5	1 0	213	30·3	33·17	188	144
D	Kettleshulme (Glebe House)	A. Y. Barker, Esq.	5	1 6	850	39·6	41·23	202	158
D	Whaley Bridge (Taxal Lo.)	Mrs. Ramsden-Jodrell	5	1 0	700	..	41·49	178	143
D	Whaley Bridge (Todds Brook)	Mr. F. Bowden	5	1 0	602	41·5	41·89	245	157
D	Disley (Lyme Park)	Stockport W.W.	5	1 0	674	..	32·81	165	131
D	Disley (Lyme Park)	Stockport W.W.	5	1 0	720	..	31·72	168	133
D	Runcorn (Weston Point)	Weaver Navigatn. Trustees.	8	1 4	17	31·3	30·97	194	146
D	Appleton Reservoir	Warrington W.W.	8	0 9	120	..	32·40	195	157
D	Moore (Uplands)	Lt.-Comm. G. K. Rylands, R.N.	5	1 0	120	..	29·41	197	141
D	High Lane (Lyme View)	S. Arrowsmith, Esq.	5	1 0	602	..	34·88	199	142
D	Thelwall (The Clough)	E. W. Reynolds, Esq.	5	1 0	95	31·4	31·02	176	147
D	Altrincham (Norman's Pl.)	*new g.* Miss G. A. Griffiths	5	1 0	150	33·6	31·81	175	136
	Altrincham (Burlington Cott.)	Miss Laura Newton	8	2 6	103	31·4	34·23	..	..
	Cheadle (Adswood)	R. W. Wright, Esq.	5	1 0	186	..	30·42	..	..
D	Stockport (Isolation Hospital)	Medical Officer of Health	5	1 2	285	..	31·18	181	137
	Godley Reservoir, *old g*	Manchester Corpn. W.W.	5	2 0	500	31·8	37·66	..	..
	Godley Reservoir, *new g.*	Manchester Corpn. W.W.	5	1 0	488	..	39·49	..	..
D	Broadbottom (Harewood Lodge)	The late Col. W. Sidebottom	5	1 0	440	34·6	40·33	153	146
D	Dukinfield (Higher Reservoir)	M. T. B. Whitson, Esq., C.E.	8	1 6	495	..	33·66	210	148
D	Dukinfield (Lower Reservoir)	M. T. B. Whitson, Esq., C.E.	5	1 0	435	33·0	34·82	206	147
	Arnfield Reservoir, *new g. old site.*	Manchester Corpn. W.W.	5	2 0	512	39·1	41·88	..	..
	Arnfield Reservoir, *new g.*	Manchester Corpn. W.W.	5	1 0	512	..	41·95	..	..
	Rhodes Wood Res., *new g, old site.*	Manchester Corpn. W.W.	5	1 6	545	42·9	46·80	..	..
M	Rhodes Wood Reservoir, *new g.*	Manchester Corpn. W.W.	5	1 0	545	..	46·33	..	..
	Torside Reservoir, *new g, old site.*	Manchester Corpn. W.W.	5	2 0	669	44·0	47·35	..	..
	Torside Reservoir, *new g.*	Manchester Corpn. W.W.	5	1 0	669	..	47·74	..	..
D	Stalybridge (Market Ground Yd.)	M. T. B. Whitson, Esq., C.E.	5	1 0	373	..	38·49	192	151
D	Stalybridge (Brushes Filter Ho.)	M. T. B. Whitson, Esq., C.E.	5	1 6	616	39·2	44·41	208	164
	Swineshaw Moor (Lees Hill)	M. T. B. Whitson, Esq., C.E.	5	1 0	1168	38·6	40·65	..	..
M	Woodhead Reservoir, *new g, old site.*	Manchester Corpn. W.W.	5	1 0	665	47·7	46·80	..	..
	Woodhead Reservoir, *new g.*	Manchester Corpn. W.W.	5	1 0	665	..	47·20	..	..

DIVISION VIII—NORTH-WESTERN COUNTIES—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Aver-age Rain-fall.	1932. Rain-fall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
CHESHIRE—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
1.—MERSEY, UPPER—(*con.*).								
§Crowden (Span Gutter)	Manchester Corpn. W.W.	5	1 0	1530	45·0	58·06	..	..
M§Woodhead (Pikenaze)	Manchester Corpn. W.W.	5	1 0	907	..	46·85	..	..
§Ormes Moor	Manchester Corpn. W.W.	5	1 0	1356	41·4	50·88	..	..
Swineshaw Moor (Boar Flat)	Manchester Corpn. W.W.	5	1 0	1190	..	51·76	..	..
§Pikenaze Moor (Round Hill)	Manchester Corpn. W.W.	5	1 0	1514	..	60·01	..	..
Withens Moor (West Withens)	Manchester Corpn. W.W.	5	1 0	1382	..	64·78	..	..
Long Ridge Moss (Near Broadslate)	Manchester Corpn. W.W.	5	1 0	1663	..	66·35	..	..
§Heyden Moor (Britland Edge)	Manchester Corpn. W.W.	5	1 0	1540	..	61·95	..	..
Upper Heyden, *new g.*	Manchester Corpn. W.W.	5	1 0	1708	..	63·80	..	..
§Grains Moss	Manchester Corpn. W.W.	5	1 0	1570	..	61·08	..	..
2.—MERSEY—Weaver. 489 sq. mi.								
d Wirswall Hall	F. H. Illingworth, Esq.	5	1 0	500	..	26·67	..	129
D Nantwich (Dorfold Hall)	Weaver Navigatn. Trustees	8	1 0	190	28·8	30·98	221	152
D Nantwich (Reaseheath Hall)	Weaver Navigatn. Trustees.	8	1 0	130	29·1	28·18	187	132
d Crewe (Weston Lane)	L. M. & S. Rly.	12	4 0	186	28·2	25·98	..	..
D Crewe (Isolation Hospital)	Leonard Reeves, Esq., C.E..	5	1 0	172	27·6	28·36	183	132
D Congleton (Sewage Works)	Borough Surveyor	5	1 0	248	30·1	36·21	196	146
D Congleton (Buglawton Sch.) *new g.*	Weaver Navigation Trustees	8	1 0	347	..	30·34	184	132
D Congleton (Buglawton Vic.) *new g.*	Weaver Navigation Trustees	8	1 0	347	30·5	30·64	203	136
D Tarporley (Tirley Garth Gdns.)	Mr. J. B. Allan	5	3 6	450	30·0	29·13	193	147
D Middlewich	I.C.I. (Alkali) Ltd.	5	1 0	138	..	28·11	181	133
d Middlewich (Bostock H.) *old g.*	Capt. W. H. France-Hayhurst	5	2 6	157	29·3	28·42	..	..
d Middlewich (Bostock Hall), *new g.*	Cpt. W. H. France-Hayhurst	5	1 0	157	..	29·48	..	..
D Delamere (Linmere)	Forestry Commission	8	0 9	250	29·5	30·64	219	150
D Northwich (Sandiway, W.W.)	J. Birtwistle, Esq.	8	1 0	163	..	31·43	193	151
D Northwich (Hunts Lock)	Weaver Navigation Trustees	8	1 0	47	30·0	28·83	209	133
D Northwich (Winnington)	I.C.I. (Alkali) Ltd.	5	1 0	64	29·2	29·77	198	137
D Northwich (Barnton)	Giles Owen, Esq.	5	1 0	175	30·3	28·49	193	141
D Northwich (Lostock Gralam)	I.C.I. (Alkali) Ltd.	5	1 0	75	..	29·56	215	141
3.—MERSEY LOWER & C. 142 sq. mi.								
Tarporley (Willington Hall)	Major C. W. Tomkinson	5	1 0	220	29·4	30·23	182	135
D Mouldsworth	A. J. Robinson, Esq.	5	1 0	145	..	32·35	182	148
D Ince Hall	Mrs. Park-Yates.	5	1 0	95	..	34·08	210	152
D Hooton Waterworks	A. J. Robinson, Esq.	5	1 6	97	30·3	30·89	194	145
d Willaston	H. Procter, Esq.	5	1 0	100	..	26·90	..	..
D Eastham	H. B. Vernon, Esq.	5	1 0	100	31·9	32·35	195	148
D Crosshill Reservoir, *old g*	R. F. Baker, Esq.	5	1 0	237	..	29·31	210	142
D Crosshill Reservoir, *new g*	R. F. Baker, Esq.	5	1 0	212	..	29·20	210	142
D Prenton Waterworks	A. J. Robinson, Esq.	5	1 6	91	28·1	30·31	177	151
D Rock Ferry (High School)	L. Davies-Shiel, Esq.	5	1 0	100	..	30·93	202	158
D Birkenhead (Oxton)	J. H. Howell, Esq.	5	1 1	163	..	29·76	191	152
D Birkenhead (Bidston Obs'y.) (+A)	The Director	8	1 0	198	27·9	27·22	179	136
D Hoylake (Recreation Gd.)	W. H. Maitland, Esq.	5	1 0	29	28·1	27·58	175	140
D Wallasey (Harrison Park)	Dr. T. W. N. Barlow	5	1 0	66	29·7	30·88	193	148
4.—DEE. 127 sq. mi.								
D Eaton Hall Gardens	Mr. N. F. Barnes	5	1 0	72	26·9	27·87	193	145
D Eccleston	E. Wells, Esq.	5	1 1	94	26·8	26·16	191	139
d Rowton (Holly Bank)	J. H. Salmon, Esq.	5	1 5	123	27·3	26·07	..	130
d Chester (Sewage Disposal Wks.)	C. Greenwood, Esq., C.E.	5	1 0	33	26·1	26·93	..	..
D Chester (Waterworks)	C. Wilfrid Bennett, Esq.	5	0 10	85	26·4	25·88	182	132
Burton	R. A. L. Billson, Esq.	5	1 0	210	..	27·39	..	..
D Neston (Vine House)	H. F. Russell, Esq.	5	1 0	111	27·4	26·97	183	128
D Heswall (St. Fillan's)	Capt. J. Deedes	5	1 0	40	..	28·04	194	136
D Heswall (Greta)	Dr. T. Guthrie	5	1 0	230	..	29·12	212	139
d West Kirby (Caldy Manor)	Mr. E. L. Barker	5	6 0	131	27·9	27·66	..	..
West Kirby (Hilbre House)	Egerton Macdona, Esq.	5	0 9	25	27·8	28·79	..	..
D West Kirby (Monk's Way)	Miss G. S. Kirkby	5	1 0	113	28·9	27·85	198	137
D West Kirby (St. Andrew's Vic.)	Rev. E. F. Robson	5	1 0	25	27·9	26·69	185	137
D West Kirby (Deeside Nursery)	H. Ward, Esq.	5	1 6	45	..	28·46	194	141
SOUTH LANCASHIRE. (Area, 687 sq. mi.).								
1.—ALT & C. 103 sq. mi.								
d Litherland (Hatton Hill Pk.)	G. W. Ponsford, Esq., C.E.	5	1 0	59	..	29·72	..	..

§ Gauge over-exposed on Moor.

DIVISION VIII—NORTH-WESTERN COUNTIES—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Aver-age Rain-fall.	1932. Rain-fall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
SOUTH LANCASHIRE—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
1.—ALT & C.—(*con*).								
d Ormskirk (Bickerstaffe P. Stn.)	C. Burton Ede, Esq., C.E...	5	1 2	128	33·2	36·03	..	..
d Ormskirk (Springfield P. Stn.)	C. Burton Ede, Esq., C.E...	5	0 11	70	33·1	36·72	..	..
D Formby (The Dunes)	J. Harold Coney Esq.....	5	0 9	30	29·8	33·84	186	153
2—MERSEY, LOWER. 240 sq. mi.								
D Garston, *new g*	Liverpool Corporation.....	5	1 0	81	..	34·95	195	151
d Garston (Grassendale Park)	Miss E. C. Abraham.....	5	1 0	30	30·1	33·60	(193)	(155)
D Aigburth (Beech Lawn)	T. H. Edwards, Esq.....	8	1 0	120	30·0	33·91	202	151
D Liverpool (Lark Lane)	Liverpool Corporation.....	5	10 8	90	..	33·08	192	151
D Liverpool (Smithdown Road)	Liverpool Corporation.....	5	1 0	135	31·7	34·64	196	157
D Liverpool (Monument Pl.) (+A)	Liverpool Corporation.....	5	1 3	124	..	33·82	194	147
D Liverpool (Rathbone Road)	Liverpool Corporation.....	5	1 0	198	34·3	35·44	194	152
D Liverpool (Breckside Park)	Liverpool Corporation.....	5	1 0	132	33·2	32·65	191	156
D Liverpool (Queens Drive)	Liverpool Corporation.....	5	1 0	119	33·3	33·98	202	165
D Warrington (Howley Yard)	A. M. Ker, Esq.....	10	5 1	26	..	29·70	159	128
D Irlam (Sewage Works)	The Engineer.....	5	1 1	40	..	30·76	155	132
D Winwick P. Stn.	Warrington W.W.	8	0 9	115	..	33·64	181	149
D St. Helens (Eccleston Hill)	A. P. Statham, Esq., C.E....	12	1 0	265	*33·8*	34·14	206	152
D St. Helens (Victoria Park)	Dr. F. Hauxwell.....	8	1 5	160	33·9	35·37	224	149
d Earlestown (Newton Cemetery)	T. E. Clough, Esq.....	5	1 0	75	33·6	32·00	..	..
D Leigh (Sewage Works) (+A)	D. Ledson, Esq.....	5	1 0	67	32·6	34·95	201	142
3.—MERSEY,—Irwell. 299 sq. mi.								
D Stretford (Sewage Farm)	Stretford U.D.C.....	5	1 1	65	..	32·21	183	145
D Stretford (Longford Yard)	Stretford U.D.C.....	8	1 1	87	..	32·56	200	144
D Manchester (Hullard Park)	Stretford U.D.C.....	8	1 1	100	32·4	34·52	179	145
D Urmston (Sew. Wks., Davyhulme)	Manchester Cor., Rivers Dpt.	8	1 0	72	30·9	33·54	181	144
D Patricroft (Eccles Sewage Wks.)	C. J. Girling, Esq.....	5	1 0	72	30·3	32·21	186	134
D Manchester (Oldham Road)	Dr. R. Veitch Clark.....	5	1 0	191	34·3	35·12	196	145
D Manchester (Whitworth Park)	Manchester University.....	8	1 5	125	31·7	32·21	181	137
D Ashton-und.-Lyne (Knott H. Res.)	M. T. B. Whitson, Esq., C.E.	6	1 0	605	35·5	40·55	222	161
D Clifton Power Station	L. M. & S. Rly.....	5	1 6	124	..	38·31	199	148
D Prestwich Sewage Works	H. T. Ainsworth, Esq., C.E..	8	0 10	150	36·6	38·05	200	150
Prestwich Reservoir, *new g, old site*	Manchester Corpn. W.W....	5	2 0	357	*34·9*	36·81	..	..
Prestwich Res., *new g, new site*	Manchester Corpn. W.W....	5	1 0	357	..	39·43	..	..
D Prestwich (Heaton Park)	Manchester Corporation....	8	1 0	312	36·8	39·68	200	153
Prestwich (Heaton Park Res.)	Manchester Corpn. W.W....	5	1 0	355	..	38·17	..	..
D Oldham Gas Works	Ernest Parry, Esq., C.E.....	5	5 0	602	39·0	44·11	230	170
D Oldham (Brushes Clough) No. 3	C. J. Batley, Esq., C.E.....	5	1 0	921	46·7	48·28	214	169
D Royton (Public Park)	The Engineer and Surveyor.	5	1 0	502	..	40·92	221	171
D Bolton (Queen's Park) (+A)	T. Midgley, Esq.....	5	1 0	342	43·1	43·46	199	157
d Bolton (L.M.S.R.) No. 1	L. M. & S. Rly.....	5	1 0	299	..	42·44	..	..
D Bolton (Heaton Reservoir)	Bolton Corporation W.W...	5	1 0	500	43·5	43·54	205	163
Bolton W.W. (Harpers Farm)	Bolton Corporation W.W...	5	1 0	872	..	45·58	..	..
D Bolton (Bloomfield, Heaton)	Mrs. F. Taylor, J.P.....	5	1 0	530	43·1	42·36	222	161
D Bolton (Smithills Hall)	Nigel V. Ainsworth, Esq....	8	1 2	510	46·1	48·44	194	164
D Bury (L.M.S.R.) No. 5	L. M. & S. Rly.....	5	1 0	294	..	41·68	251	169
D Bury (Parsons Lane)	Bury Water Board.....	8	9 8	316	42·4	43·60	199	159
D Bury (Bridge Hall)	Miss C. Wrigley	8	1 6	..	42·2	40·72	201	165
D Bradshaw (Sewage Works)	Turton U.D.C.....	5	1 0	329	43·0	46·56	188	169
D New Hey (Sewage Works)	Mr. J. B. Ogden.....	5	1 0	514	41·6	43·31	198	165
d Milnrow (Butterworth Hall)	C. J. Batley, Esq., C.E.....	5	1 0	512	43·8	45·69	..	..
D Milnrow (Piethorne, Kitcliffe)	C. J. Batley, Esq., C.E.....	5	1 0	766	..	47·28	216	166
D Milnrow (Piethorne, Coldgreave)	C. J. Batley, Esq., C.E.....	5	1 0	832	46·3	48·49	217	169
D Rochdale (Roch Mills Sew. Wks.)	S. H. Morgan, Esq., C.E.....	8	1 1	363	44·5	40·04	211	155
D Rochdale (Broadfield Pk. Obsy.)	Medical Officer of Health...	8	1 0	472	43·9	39·46	213	167
D Rochdale (Fieldhead Yard)	S. H. Morgan, Esq., C.E....	8	1 0	473	..	42·22	201	161
D Rochdale (Ashworth Moor Res.)	Heywood Water Board.....	5	1 2	956	..	43·93	216	170
Bolton (Egerton House) *old g*	E. H. Ashworth, Esq.....	5	1 0	633	49·6	50·22	..	..
Bolton (Egerton House) *new g*	E. H. Ashworth, Esq.....	5	1 0	633	48·8	50·54	..	..
D Bury (Gin Hall) No. 1	Bury Water Board.....	8	1 0	475	43·7	40·37	210	166
D Bury (Gin Hall) No. 2	Bury Water Board.....	8	1 0	475	44·5	41·52	211	165
D Bolton W.W. (Springs) No. 2	Bolton Corporation W.W...	5	1 0	810	54·5	57·18	219	164
Bolton W.W. (Eagley) No. 4	Bolton Corporation W.W...	5	1 0	546	52·3	54·54	..	..
M Bolton W.W. (Hordern)	Bolton Corporation W.W...	5	1 0	1160	53·6	54·20	..	..

DIVISION VIII—NORTH-WESTERN COUNTIES—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1932. Rainfall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
SOUTH LANCASHIRE—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
3.—MERSEY—Irwell.—(*con.*).								
§Bolton W.W. (Delph)	Bolton Corporation W.W...	5	1 0	710	51·2	55·48	..	..
M Bolton W.W. (Longworth)	Bolton Corporation W.W...	5	1 0	770	52·4	52·78	..	..
Bolton W.W. (Wayoh)....No. 3.	Bolton Corporation W.W...	5	1 0	608	51·6	53·01	..	..
§Bolton W.W. (Holden's Farm)....	Bolton Corporation W.W...	5	1 0	955	52·1	54·75	..	..
Bolton W.W. (Top-o'-th'-Brow)...	Bolton Corporation W.W...	5	1 0	935	55·2	59·62	..	..
D Bolton W.W. (Entwistle)...No. 2.	Bolton Corporation W.W...	5	1 0	692	53·2	54·82	230	171
Bolton W.W. (Bromiley Heys)....	Bolton Corporation W.W...	5	1 0	925	51·5	54·77	..	..
§Bolton W.W. (Hulton Pasture)....	Bolton Corporation W.W...	5	1 0	1130	..	49·71	..	..
§Bolton W.W. (Moorside)	Bolton Corporation W.W...	5	1 0	850	..	52·61	..	..
Bolton W.W. (Clough).....No. 2.	Bolton Corporation W.W...	5	1 0	1025	55·0	57·76	..	..
Bolton W.W. (Cranberry Moss)..2.	Bolton Corporation W.W...	5	1 0	982	53·0	56·44	..	..
M Bolton W.W. (Slater Lane)	Bolton Corporation W.W...	5	1 0	985	51·8	52·65	..	..
Bolton W.W. (Brown Lowe)	Bolton Corporation W.W...	5	1 0	1200	51·8	56·36	..	..
Bolton W.W. (Longshoot)	Bolton Corporation W.W...	5	1 0	930	..	54·78	..	..
Bolton W.W. (Uglow).....No. 2.	Bolton Corporation W.W...	5	1 0	1090	51·1	52·22	..	..
D Rochdale (Hamer Pasture Res.)...	Rochdale Corporation W.W.	5	1 0	760	48·6	47·30	223	167
D Rochdale (Naden Filters)	Heywood Water Board.....	5	1 0	761	..	49·54	194	173
M Norden (Higher Red Lumb)	Heywood Water Board.....	5	1 3	1125	..	45·37	..	..
W Norden (Far Knowl Farm)	Heywood Water Board.....	5	0 10	..	47·2	49·60	..	..
W Rochdale (Naden Dean) *old g*.	Heywood Water Board.....	5	1 4	948	..	41·60	..	..
W Rochdale (Naden Dean) *new g*.	Heywood Water Board.....	5	1 4	948	..	44·47	..	..
D Littleborough (Longden End).....	C. J. Batley, Esq., C.E.....	5	1 0	751	47·4	48·25	220	171
D Littleborough (Hollngwrth Lke)...	C. J. Batley, Esq., C.E.....	8	1 0	610	..	40·27	202	158
d Littleborough (Broadhead).....	C. J. Batley, Esq., C.E.....	8	1 0	1337	..	40·67	..	..
d Littleborough (Bickstne. Edge)....	C. J. Batley, Esq., C.E.....	8	1 0	1268	..	42·12	..	..
D Littleborough (Uppr. Chlburn.)....	C. J. Batley, Esq., C.E.....	8	1 0	725	..	48·88	222	173
D Littleborough (Chelburn).....	C. J. Batley, Esq., C.E.....	8	1 0	700	..	40·35	222	169
M Ramsbottom (Killgate Brook).....	Heywood Water Board.....	5	1 0	978	..	49·38	..	..
d Ramsbottom (L.M.S.R.)....No. 3.	L. M. & S. Rly.....	5	0 11	418	47·7	46·65	..	..
M Ramsbottom (Cheesden Barn).....	Heywood Water Board.....	5	1 0	997	..	47·35	..	..
D Edenfield (Scout Moor Res.) No. 1.	Bury Water Board.....	8	1 0	1275	..	53·49	228	173
D Edenfield (Scout Moor Res.) No. 2.	Bury Water Board.....	8	1 0	1275	..	54·24	228	172
D Waterfoot (Cragg Reservoir).....	F. W. Mozley, Esq., C.E....	5	1 0	1325	..	48·81	228	175
D Waterfoot (Cowpe Reservoir).....	F. W. Mozley, Esq., C.E....	5	1 0	1013	..	46·09	228	178
D Rochdale (Spring Mill Whitworth).	Rochdale Corporation W.W.	5	1 0	720	51·5	51·75	198	177
D Wardle (Watergrove Mill).....	Rochdale Corporation W.W.	5	1 0	775	..	54·21	210	176
D Rochdale (Cowm, Whitworth).....	Rochdale Corporation W.W.	5	1 0	762	51·5	56·07	197	186
D Helmshore (Clough House).....	A. C. Cullen, Esq.....	5	1 0	650	50·3	55·07	199	169
D Haslingden (Holden Wood) No. 1.	Bury Water Board.....	8	1 0	670	52·1	51·52	211	169
D Haslingden (Holden Wood) No. 2.	Bury Water Board.....	8	1 0	670	51·4	48·69	211	169
D Haslingden (Calf Hey).....No. 1.	Bury Water Board.....	8	1 0	800	50·9	49·39	211	173
D Haslingden (Calf Hey).....No. 2.	Bury Water Board.....	8	1 0	800	..	44·12	211	166
D Bacup (Sheephouse Reservoir) ...	F. W. Mozley, Esq., C.E. ..	5	1 0	1008	..	43·25	227	172
D Bacup (L.M.S.R.).....No. 4.	L. M. & S. Rly.....	5	1 0	875	47·1	49·40	233	189
d Rawtenstall Cemetery	J. Johnson, Esq.....	8	1 1	572	49·1	47·72	..	..
D Haslingden (L.M.S.R.).....No. 2.	L. M. & S. Rly.....	5	1 0	715	..	49·66	182	153
D Rawtenstall (Cloughbottom) No. 1.	Bury Water Board.....	8	1 0	1025	46·7	49·45	214	184
D Rawtenstall (Cloughbottom) No. 2.	Bury Water Board.....	8	1 0	1025	..	47·71	214	175
D Rawtenstall (Hapton Res.)..No. 1.	Bury Water Board.....	8	1 0	930	48·7	50·69	216	190
D Rawtenstall (Hapton Res.)..No. 2.	Bury Water Board.....	8	1 0	930	50·6	54·17	216	190
4.—MERSEY, UPPER. 45 sq. mi.								
D Didsbury (Linden Road).....	L. G. King, Esq.....	8	1 6	110	31·0	31·41	190	133
D West Didsbury (Town Hall)..(R)..	Manchester Corporation....	8	7 6	121	29·2	28·12	161	121
D Northenden Sewage Wks.	Manchester Cor., Rivers Dpt.	8	3 8	85	..	30·55	179	132
D Chorlton-cum-Hardy Sew. Works..	Manchester Cor., Rivers Dpt.	8	4 6	95	30·5	31·44	202	139
D Fallowfield (Platt Field Park).....	Manchester Corporation....	8	1 0	124	30·6	32·16	184	135
Denton Reservoir, *old g*.....	Manchester Corpn. W.W....	5	2 0	306	30·5	30·01	..	..
Denton Reservoir, *new g*.....	Manchester Corpn. W.W....	5	1 0	306	..	33·78	..	..
Gorton Reservoir, *old g*.....	Manchester Corpn. W.W....	5	2 0	263	30·5	31·45	..	..
Gorton Reservoir, *new g*.....	Manchester Corpn. W.W....	5	1 0	263	..	33·90	..	..
D Ashton-u-Lyne (Henrietta St. Yd.).	M. T. B. Whitson, Esq., C.E.	7	1 0	394	37·2	38·67	207	157
D Lower Swineshaw Reservoir.....	M. T. B. Whitson, Esq., C.E.	8	1 6	886	43·6	45·90	206	161
Swineshaw Moor.....	M. T. B. Whitson, Esq., C.E.	5	1 0	1340	44·9	45·65	..	..
D Mossley (Manor House Yard).....	M. T. B. Whitson, Esq., C.E.	5	1 0	636	41·5	38·97	195	160

§ Turf wall round gauge.

DIVISION VIII—NORTH-WESTERN COUNTIES—(*con.*).

	STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1932. Rainfall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
	CENTRAL LANCASHIRE. (Area, 536 sq. mi.)		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
	1.—RIBBLE & C. 326 sq. mi.								
	Darwen (Spring Bank)	T. Anderton, Esq.	5	1 0	710	..	51·02	..	..
d	Darwen (Ashleigh Street)	A. Barker, Esq.	5	..	690	..	56·17?	..	139
D	Darwen (Sunnyhurst Hey Res.)	E. Marsden, Esq., C.E.	8	1 0	915	..	48·46	216	165
D	Darwen (Earnsdale Reservoir)	E. Marsden, Esq., C.E.	8	1 0	705	47·4	50·39	216	173
D	Darwen (Bold Venture Park)	Medical Officer of Health	8	1 1	724	50·1	50·27	221	166
D	Darwen (Hoddlesden) No. 1.	H. M. Webb, Esq., C.E.	8	1 6	680	49·1	49·94	200	169
D	Darwen (Daisy Green) No. 1.	H. M. Webb, Esq., C.E.	8	1 6	969	46·6	46·41	204	175
D	Darwen (Pickup Bank) No. 1.	H. M. Webb, Esq., C.E.	8	1 6	720	46·8	43·84	204	167
D	Brindle (Whiteholme)	Mrs. Victor H. Gatty	5	1 8	315	..	40·12	195	166
d	Haslingden (Mitchell's Ho. Res.)	A. J. Harrison, Esq.	5	1 6	950	..	(47·37)	(224)	(166)
d	Haslingden (Mitchell's Ho. Res.) No. 2.	A. J. Harrison, Esq.	5	1 6	984	..	(45·24)	(226)	(166)
D	Blackburn (Guide Reservoir)	H. M. Webb, Esq., C.E.	8	1 6	610	..	43·82	220	163
D	Blackburn (Witton)	H. M. Webb, Esq., C.E.	8	1 6	315	42·0	39·13	205	160
D	Blackburn Fever Hospital	H. M. Webb, Esq., C.E.	6	1 6	570	..	38·69	210	161
D	Hutton (Lancs. C.C. Hortic. Stat.)	The Director of Education	5	1 0	82	35·2	35·41	192	154
D	St. Anne's-on-Sea (South Side)	Dr. J. P. Litt	5	1 0	25	31·4	33·40	182	144
D	St. Anne's-on-Sea (Lawrence Ho.)	C. G. D. Hoare, Esq.	5	1 6	25	32·2	34·69	182	151
D	Accrington (Milnshaw Park)	Mr. J. W. Terry	5	1 6	464	..	39·96	183	153
D	Preston (Moor Park) (+A)	Preston Corporation	8	1 0	110	35·3	39·07	215	155
D	Samlesbury Sewage Works	H. M. Webb, Esq., C.E.	8	1 6	240	36·9	36·46	208	165
w	Causeway Side (Burnley W.W.)	S. Rawlinson, Esq., C.E.	8	1 0	1116	41·7	40·41	..	..
w	Sheddin (Burnley W.W.)	S. Rawlinson, Esq., C.E.	8	1 0	960	41·9	41·90	..	..
D	Cant Clough S. Side (Burnley W.W.)	S. Rawlinson, Esq., C.E.	8	1 0	900	42·3	40·13	217	156
D	Cant Clough N. Side (Burnley W.W.)	S. Rawlinson, Esq., C.E.	8	1 0	900	..	40·76	217	158
w	Rams Clough Head (Burnley WW)	S. Rawlinson, Esq., C.E.	8	1 0	1260	..	39·01	..	..
D	Huncoat (Burnley Road Res.)	A. J. Harrison, Esq.	9	1 6	620	43·0	46·99	213	146
D	Huncoat (Burnley Rd. Res.) *new g.*	A. J. Harrison, Esq.	5	1 0	624	..	44·45	212	157
D	Wilpshire (Brooklyn Road)	H. W. Apperley, Esq.	5	1 0	408	40·7	42·31	207	150
D	Great Harwood (Parsonage Res.)	H. M. Webb, Esq., C.E.	8	1 0	631	40·7	45·40	224	169
D	Great Harwood (Dean Clough)	A. J. Harrison, Esq.	12	1 6	540	45·6	48·21	209	168
D	Burnley (Queen's Park)	Medical Officer of Health	8	1 0	458	..	42·76	206	161
D	Burnley (Swinden) *Upper g.*	S. Rawlinson, Esq., C.E.	8	12 0	820	43·6	43·76	232	169
D	Burnley (Swinden) *Lower g.*	S. Rawlinson, Esq., C.E.	8	1 0	745	44·3	44·05	232	173
D	Padiham (Altham Sew. Works) (+A)	H. Russell, Esq., C.E.	5	1 0	225	40·9	(39·54)	193	141
d	Padiham (Gawthorpe Hall)	Lord Shuttleworth	8	1 0	282	40·7	(39·70)	(177)	(162)
D	Padiham (Huntroyde)	E. G. Howsin, Esq.	5	1 0	423	41·1	43·42	204	161
D	Grimsargh (Red Scar)	Mrs. K. C. Hollas	5	0 8	175	..	43·37	196	166
D	Alston Reservoir	E. C. Oakes, Esq., C.E.	8	1 2	320	41·0	41·37	211	161
D	Nelson (Coldwell Res.) S. No. 2.	Nelson Corporation W.W.	5	1 0	960	46·3	52·82	254	195
D	Nelson (Victoria Park)	Nelson Corporation W.W.	5	1 0	375	41·8	46·32	193	155
D	Stonyhurst College (+A)	The Director	8	1 10	377	46·5	46·62	204	161
M	Knowle Green (Preston W. W.)	E. C. Oakes, Esq., C.E.	8	1 2	360	41·1	46·81	..	..
D	Cowley Brook (Preston W.W.)	E. C. Oakes, Esq., C.E.	8	1 2	616	..	51·61	218	171
D	Spade Mill (Preston W.W.)	E. C. Oakes, Esq., C.E.	8	1 2	400	41·7	43·02	214	159
M	Jeffery Hill (Preston W. W.)	E. C. Oakes, Esq., C.E.	8	1 2	900	47·3	55·75	..	..
D	Sabden (Whins House)	Miss Foster	5	1 0	500	41·1	44·01	209	166
D	Sabden (Churn Clough Res.)	H. Russell, Esq., C.E.	5	1 0	790	41·2	48·84	231	167
w	Sabden (Craggs Dole)	H. Russell, Esq., C.E.	8	1 0	1050	46·0	48·52	..	..
w	Newchurch (Cock Dole)	H. Russell, Esq., C.E.	5	1 0	1090	47·0	48·59	..	..
D	Barley (Ogden Reservoir)	Nelson Corporation W.W.	5	1 6	950	46·0	52·34	208	166
D	Pendle Hill (Buttock)	Nelson Corporation W.W.	5	1 0	1175	..	61·28	212	177
D	Colne (Swinden Sew. Works)	T. H. Hartley, Esq.	5	1 0	423	42·0	47·41	220	159
§	Barrowford Reservoir	Leeds & Liverpool Canal Co.	8	1 0	473	41·0	45·96	..	..
	Foulridge (Upper Reservoir)	Leeds & Liverpool Canal Co.	8	1 0	582	40·5	44·82	..	..
	Foulridge (Reedy Moor)	Leeds & Liverpool Canal Co.	5	1 0	553	..	43·18	..	..
	Clitheroe (Moorland Crescent)	C. W. Wheeler, Esq.	5	1 0	280	..	45·30	..	..
D	Chatburn School	E. P. Aldersley, Esq.	5	0 11	322	43·0	46·09	211	163
	Clitheroe (Downham Hall)	R. C. Assheton, Esq.	10	1 6	464	..	42·80	..	..
	2.—RIBBLE—Douglas. 156 sq. mi.								
D	Wigan W.W. (Billinge Higher End)	The Borough Engineer	5	1 0	374	33·9	39·66	197	156
D	Orrell (Upholland Gram. Sch.)	The Headmaster	5	1 0	320	35·5	39·23	216	159

§ Gauge moved May, 1932.

DIVISION VIII—NORTH-WESTERN COUNTIES—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Rain-gauge: Aver-age Rain-fall.	1932. Rain-fall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in or more.
CENTRAL LANCASHIRE—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
2.—RIBBLE—Douglas—(*con.*).								
D Wigan W.W. (Worthington)	The Borough Engineer	5	1 0	225	35·4	38·68	192	143
D Horwich (Lower Rivington)	Col. J. R. Davidson, C.E.	5	1 0	440	38·7	36·70	210	147
w Horwich (Lower Knoll)	Col. J. R. Davidson, C.E.	8	1 4	742	41·2	39·22	..	..
w§Rivington (Brown Hill)	Col. J. R. Davidson, C.E.	8	1 4	844	..	41·90	..	..
w Rivington (Brown Hill) *new g*	Col. J. R. Davidson, C.E.	5	1 0	727	..	43·66	..	..
D Rivington (Stoneshouse)..No. 1	Col. J. R. Davidson, C.E.	10	1 4	629	..	40·25	206	162
D Rivington (Stonehouse) No. 2, *new g*.	Col. J. R. Davidson, C.E.	5	1 0	607	..	39·67	210	165
w Rivington (Stoneshouse)..No. 3 ..	Col. J. R. Davidson, C.E.	8	1 4	629	..	40·51	..	..
d Chorley (Oakdene)	Dr. H. E. Middlebrooke	5	1 0	283	..	(38·26)	(202)	(151)
w§Rivington (Hurst Hill)	Col. J. R. Davidson, C.E.	8	1 10	1029	..	44·48	..	..
w§Rivington (Great Hill)	Col. J. R. Davidson, C.E.	8	1 8	1240	..	45·94	..	..
w§Rivington (Coppice Stile)	Col. J. R. Davidson, C.E.	8	1 8	879	..	41·81	..	..
w Rivington (Gamekeeper's)	Col. J. R. Davidson, C.E.	8	1 1	850	45·4	45·30	..	..
w Roddlesworth	Col. J. R. Davidson, C.E. ..	5	1 0	725	..	46·13	..	..
D Chorley (Com. Bk. Sew. Wks.)	J. Slater, Esq.	5	1 0	179	..	36·21	201	149
D Leyland (Worden Hall) (+A)	H. Nowell ffarington, Esq.	5	1 0	125	34·9	37·99	199	156
w§Darwen (Higher Hill)	Col. J. R. Davidson, C.E.	8	1 4	733	..	39·15	..	..
D Bamber Bridge (Cuerden Hall)	J. Alleyne Robinson, Esq.	5	1 0	230	35·7	36·59	195	153
3.—COAST STREAMS. 52 sq. mi.								
D Birkdale (Bedford Rd. Park)	J. Baxendell, Esq.	5	1 0	35	..	34·26	183	143
D Southport (Hesketh Park) (+A)	J. Baxendell, Esq.	8	1 0	37	32·0	33·57	195	143
4.—OUSE—Aire. 2 sq. mi.								
d Watersheddles Reservoir	A. Atkinson, Esq., C.E.	5	1 0	1115	48·4	50·40	(225)	(174)
Foulridge (Canal Office)	Leeds & Liverpool Canal Co.	8	1 0	497	43·5	44·67	..	..
NORTH LANCASHIRE. (Area, 609 sq. mi.)								
1.—DUDDON & C. 77 sq. mi.								
D Barrow-in-Furness (Gas Works)	Claude Diamond, Esq.	11	3 0	17	37·6	45·64	198	165
D Barrow-in-Furness (Sewage Wks.)	W. C. Persey, Esq., C.E.	5	1 0	20	39·3	40·94	208	160
D Barrow-in-Furness (Risedale C. Sch.)	The Headmaster	5	1 0	55	..	40·73	195	151
Little Urswick (North View)	J. Dobson, Esq.	5	1 6	130	44·4	50·44	198	156
D Ulverston (Poaka Beck)	Claude Diamond, Esq.	11	1 6	512	52·1	50·53	217	182
D Ulpha	Claude Diamond, Esq.	11	1 6	251	..	66·33	215	180
d Duddon Valley (Seathwaite Sch.)	The Headmistress	5	1 0	348	77·8	95·60	..	..
w Duddon Val. (Seathwaite Tarn)	Claude Diamond, Esq.	11	1 6	1221	92·7	105·96	..	..
2.—LEVEN & C. 135 sq. mi.								
D Cartmel (Holker Hall)	Lord Richard Cavendish	5	0 9	85	44·5	51·44	213	160
D Ulverston (Pengwerne)	C. J. Chapman, Esq.	5	1 4	138	50·1	54·79	202	165
Rusland Hall	C. F. Archibald, Esq.	5	1 0	25	46·7	58·85	212	169
Cartmell Fell (Ghyll Head Res.)	J. Lupton, Esq.	8	1 0	425	63·1	67·18	..	..
d Coniston (School Garden)	The Headmaster	5	1 0	180	80·3	96·29	..	..
D Hawkshead (Low House, Sawrey) †	Mrs. W. H. Baines	5	1 0	342	65·3	70·27	184	172
Hawkshead (Foundation Sch.)	The Headmaster	5	1 0	214	71·1	80·41	..	..
d Hawkshead (Bettyfold)	H. T. Gnosspelius, Esq.	5	1 0	500	..	85·83	..	..
D Hawkshead Hill	Miss R. E. Sugden	5	0 7	600	..	94·07	187	176
M§Hawkshead (Black Fell)	Miss C. Marshall	5	1 6	1055	..	(88·04)	..	..
D Ambleside (Skelwith Fold)	Miss C. Marshall	5	1 0	333	81·0	92·12	185	164
3.—KENT & C. 45 sq. mi.								
d Heysham Harbour	L. M. & S. Rly Co.	5	1 6	25	34·7	38·20	..	..
D Morecambe	H. Morgans, Esq.	8	1 0	23	37·0	39·66	192	142
D Hest Bank (Greendale)	W. Watson, Esq.	5	1 6	97	..	41·48	188	133
D Yealand Conyers (Beechfield)	Miss E. Roper	5	1 0	250	..	41·80	201	145
D Yealand Conyers (Morecambe Lo.)	J. Rawlinson Ford, Esq.	5	1 0	278	42·9	47·64	214	160
Grange-over-Sands (Nutwood)	J. Steen, Esq.	5	1 0	140	45·0	48·05	..	..
D Grange-over-Sands (Holmcroft)	R. Rhodes, Esq.	5	1 3	45	47·0	48·95	208	151
D Lindale (Ellerhow)	Lady Tomlinson	5	1 5	300	51·4	57·89	187	154

† Previously at (Tower Bank, Sawrey). § Gauge over-exposed on Moor.

DIVISION VIII—NORTH-WESTERN COUNTIES—(*con.*).

	STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Aver-age Rain-fall.	1932. Rain-fall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
	NORTH LANCASHIRE—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
	4.—LUNE. 135 sq. mi.								
D	Hampson-in-Ellel	John Welch, Esq.	5	1 0	145	38·3	41·55	187	149
D	Quernmore (Brow Top)	F. Hill, Esq., C.E.	8	1 0	552	43·1	45·15	188	154
	Bowland Forest (Whitray)	J. T. Sanderson, Esq.	5	1 0	1139	57·5	63·13	..	..
	Bowland Forest (Lower Salter)	J. T. Sanderson, Esq.	5	1 0	572	52·8	57·80	..	..
d	Lancaster (Strathspey)	A. B. S. Welch, Esq.	5	1 0	87	38·7	40·69	..	..
D	Lancaster (The Friends School)	G. A. Watson, Esq.	5	1 0	55	36·2	39·85	193	152
D	Lancaster (Blea Tarn Res.)	F. Hill, Esq., C.E.	8	1 0	410	..	44·91	212	156
D	Lancaster (Greg Obsy.) (+A)	Neville Holden, Esq.	8	1 0	312	40·7	43·25	200	149
D	Lancaster (Lune Aqueduct)	L. M. & S. Railway Co.	8	3 7	74	38·4	41·66	186	156
D	Caton (Escowbeck House)	J. Howorth Massey, Esq.	5	1 0	150	..	44·99	200	157
D	Wray (Wray House)	Baldwin Bent, Esq,. C.E.	5	1 6	170	..	41·85	196	146
D	Wennington (Tatham Rectory)	Rev. A. S. Roberts	5	1 3	150	40·9	41·67	177	148
	5.—WYRE & C. 213 sq. mi.								
D	Weeton Reservoir (No. 1)	Fylde Water Board	5	1 0	133	36·6	40·58	199	159
D	Blackpool (Met. Observatory)	E. W. Rees Jones, Esq., M.D.	5	1 0	67	33·4	35·16	201	143
D	Barton (Newsham House)	W. B. S. Smith, Esq.	5	1 0	104	38·2	40·18	205	155
D	Kirkham (Elswick Lodge)	L. G. King, Esq.	5	1 4	52	35·0	37·00	203	149
D	St. Michael's-on-Wyre	Ven. Archdeacon Hornby	5	1 0	26	36·0	38·62	196	159
D	Fleetwood	Engineer and Surveyor	8	2 6	27	33·4	37·86	192	149
D	Garstang (Barnacre Reservoir)	Fylde Water Board	5	1 0	616	45·7	48·77	205	166
D	Garstang (Grizedale Reservoir)	Fylde Water Board	5	1 0	517	43·6	46·09	201	164
	Garstang (Calder Intake)	Fylde Water Board	5	1 0	632	46·6	48·76	..	..
	Garstang (Grizedale Intake)	Fylde Water Board	5	1 0	644	46·6	47·50	..	..
D	Wyresdale (Abbeystead Res.)	F. Hill, Esq., C.E.	8	1 0	366	47·9	50·65	220	175
D	Abbeystead Gardens	Mr. Geo. Penk	5	1 0	420	50·1	52·94	222	177
M	Quernmore (Old Gauge Basin)	F. Hill, Esq., C.E.	8	1 0	963	46·1	54·80	..	..
M	Wyresdale (Wardstone)	F. Hill, Esq., C.E.	8	1 0	1440	60·8	68·31	..	..
	6.—INSULAR. 4 sq. mi.								

DIVISION IX—YORKSHIRE.

WEST RIDING. (Area, 2,791 sq. mi.)

	1.—LUNE. 178 sq. mi.								
D	Austwick (Beck House)	Rev. J. Turner	5	1 1	475	44·3	44·53	206	157
D	High Bentham (Inglefield)	Geoffrey Holmes, Esq.	5	1 0	412	..	40·44	202	155
D	Sedbergh (Brigflatts)	The Misses Wilson	5	1 0	305	53·0	59·62	203	163
D	Sedbergh (The Leyes)	Rev. A. J. K. Martyn	5	0 9	400	..	59·45	212	161
D	Sedbergh (Havera Bank)	A. Mountain, Esq.	5	1 0	450	56·1	61·02	196	160
	2.—RIBBLE. 225 sq. mi.								
D	Barnoldswick (Rainhall Road)	Asa Burniston, Esq.	5	1 2	549	38·1	46·51	201	149
	Barnoldswick (Greenberfield L.)	Leeds & L'pool Canal Co.	8	1 0	488	41·5	47·52	..	..
D	Slaidburn (Thorneyholme)	Mr. G. Marr	5	1 6	380	57·5	61·38	197	182
D	Slaidburn (Hareden Valley)	E. C. Oakes, Esq., C.E.	8	1 2	556	68·3	74·89	233	181
D	Slaidburn (Langden Brook)	E. C. Oakes, Esq., C.E.	8	1 2	556	68·6	75·74	228	180
D	Slaidburn (Dunsop Houses)	H. M. Webb, Esq., C.E.	8	1 6	450	62·9	67·87	292	177
D	Slaidburn (Footholme)	H. M. Webb, Esq., C.E.	8	1 6	565	62·2	66·23	197	178
M	Slaidburn (Middle Knoll)	H. M. Webb, Esq., C.E.	5	1 0	1288	..	71·87	..	..
D	Slaidburn (Brennand)	H. M. Webb, Esq., C.E.	8	1 6	820	68·3	68·06	195	175
D	Slaidburn (Croasdale House)	H. M. Webb, Esq., C.E.	8	1 6	600	51·0	52·40	188	170
D§	Slaidburn (Croasdale Valley)	H. M. Webb, Esq., C.E.	8	1 6	720	..	68·37	188	176
D	Slaidburn (Whitendale)	H. M. Webb, Esq., C.E.	8	1 6	830	70·0	72·14	196	172
M	Slaidburn (Cabin Hill)	H. M. Webb, Esq., C.E.	5	1 0	1559	63·0	73·30	..	..
M	Slaidburn (Baxton Fell)	H. M. Webb, Esq., C.E.	5	1 0	1525	..	83·52	..	..
M	Slaidburn (Saddle Hill)	H. M. Webb, Esq., C.E.	5	2 6	1475	..	55·85	..	..
D	Settle (Cappleside)	Mrs. Geldard	5	0 10	500	49·9	52·24	222	169
D	Settle (Gas Works)	J. W. Shepherd, Esq.	8	1 0	450	43·9	44·91	207	158
D	Settle (Giggleswick School)	The Headmaster	8	1 0	575	..	41·20	192	159
	Horton-in-Ribblesdale	Nathaniel Hunt, Esq.	5	1 0	800	52·2	52·92	..	..
	3.—MERSEY—Irwell. 2 sq. mi.								

§ Gauge over-exposed.

DIVISION IX—YORKSHIRE—(*con.*).

	STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1932. Rainfall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
	WEST RIDING—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
	4.—MERSEY, UPPER. 35 sq. mi.								
	Greenfield (Upperwood Moor)	M. T. B. Whitson, Esq., C.E.	5	1 0	1518	..	48·13	..	..
D	Greenfield (Chew Mount)	M. T. B. Whitson, Esq., C.E.	5	1 0	1578	50·7	53·41	235	173
	Greenfield (Chew Reservoir)	M. T. B. Whitson, Esq., C.E.	5	1 0	1648	..	57·70	..	..
D	Greenfield (Yeoman Hey)	M. T. B. Whitson, Esq., C.E.	5	1 0	759	49·1	48·86	212	181
	Greenfield (Ashway Moss)	M. T. B. Whitson, Esq., C.E.	5	1 0	1581	..	45·32	..	..
	Greenfield (Birchen Clough)	M. T. B. Whitson, Esq., C.E.	5	1 0	1018	51·4	51·17	..	..
	Saddleworth Station	L. M. & S. Rly.	5	4 10	630	..	43·40?	..	..
D	Oldham (Strinesdale) *new*	C. J. Batley, Esq., C.E.	5	1 0	791	44·7	46·14	212	164
D	Standedge (Cas Shaw Broadh'd) *new*	C. J. Batley, Esq., C.E.	8	1 0	957	51·5	54·39	239	193
M	Standedge (Redbrook Res.)	L. M. & S. Rly.	8	2 0	1150	..	51·72	..	..
D	Denshaw C.E. School	The Head Teacher	8	1 1	870	..	49·70	219	174
D	Denshaw (Ox Hey) *new*	C. J. Batley, Esq., C.E.	8	1 0	1031	48·9	48·64	228	172
D	Denshaw (Crawshaw Hey)	C. J. Batley, Esq., C.E.	8	1 0	956	48·5	49·81	228	173
D	Denshaw (New Year's Br.) *new*	C. J. Batley, Esq., C.E.	8	1 0	986	..	46·42	228	176
	5.—TRENT—Derwent. 7 sq. mi.								
M	Derwent Dale (Abbey Brook) .65	S. B. Winser, Esq., C.E.	5	1 0	825	45·2	48·08	..	..
M	Derwent Dale (Howden Cl'gh) .64	S. B. Winser, Esq., C.E.	5	1 0	1030	44·4	48·31	..	..
	Derwent Dale (Howden Ho.) .19	S. B. Winser, Esq., C.E.	8	1 0	890	44·1	47·36	..	..
M	Derwent Dale (Sandy Lee) No. 7	S. B. Winser, Esq., C.E.	5	1 0	1340	..	46·44	..	..
	6.—TRENT—Left Bank Tributaries. 143 sq. mi.								
D	Lindrick Common (Woodside)	Mrs. M. E. Eardley	5	1 0	250	25·5	24·56	142	110
D	Rossington Main Colliery	Rossington Colliery Co., Ltd.	5	1 0	22	..	22·17	160	104
	7.—OUSE—Don. 564 sq. mi.								
D	Sheffield W.W. (Redmires R.) (R)	Sheffield Corporation W.W.	10	5 0	1110	40·3	41·76	209	157
D	Sheffield W.W. (Redmires Res.)	Sheffield Corporation W.W.	8	4 0	1110	39·9	41·19	212	158
D	Sheffield W.W. (Redmires R.) *new g.*	Sheffield Corporation W.W.	5	1 0	1110	..	42·39	212	161
§	Rivelin (Oaking Clough)	Sheffield Corporation W.W.	8	1 0	1160	39·8	42·31	..	..
	Rivelin (Middle Moss)	Sheffield Corporation W.W.	5	1 0	1168	41·0	45·50	..	..
D	Sheffield W.W. (Rivelin)	Sheffield Corporation W.W.	8	1 6	564	35·2	38·41	205	145
	Sheffield W.W. (Black Clough)	Sheffield Corporation W.W.	5	1 0	1175	40·3	46·21	..	..
D	Sheffield W.W. (Crookes) (R)	Sheffield Corporation W.W.	10	2 0	629	..	31·41	173	131
D	Sheffield W.W. (Crookes)	Sheffield Corporation W.W.	8	2 0	629	..	30·86	171	130
D	Sheffield (Weston Park)	Town Clerk	8	1 0	428	30·4	31·87	180	135
	Loxley Valley (Crawshaw Wood)	Sheffield Corporation W.W.	5	1 0	1175	..	41·28	..	..
	Loxley Valley (Broadcar)	Sheffield Corporation W.W.	5	1 0	1004	44·4	47·42	..	..
	Loxley V. (Oaks Fm. Damflask)	Sheffield Corporation W.W.	5	1 0	650	36·1	40·40	..	..
	Loxley V. (Loftshaw, Strines)	Sheffield Corporation W.W.	5	1 0	1011	43·2	43·20	..	..
D	Loxley Valley (Bradfield Filters)	Sheffield Corporation W.W.	8	1 0	551	..	41·55	200	150
D	Loxley V. (Dale Dike Res.)	Sheffield Corporation W.W.	8	1 0	715	39·5	43·19	228	159
	Loxley Valley (Bragging Moss)	Sheffield Corporation W.W.	5	1 0	1360	..	51·00	..	..
	Loxley V. (Thornseat)	Sheffield Corporation W.W.	5	1 0	1326	42·6	46·69	..	..
	Loxley V. (Rocher Flat)	Sheffield Corporation W.W.	5	1 0	1106	37·1	39·96	..	..
	Loxley V. (Emlin Moor)	Sheffield Corporation W.W.	5	1 0	998	41·3	47·48	..	..
	Loxley Valley (White Lee Moor)	Sheffield Corporation W.W.	5	1 0	1170	..	47·15	..	..
	Loxley Valley (Hobson Moss)	Sheffield Corporation W.W.	5	1 0	1530	..	51·23	..	..
D	Rotherham (Ulley Res.) (2)	Vincent Turner, Esq., C.E.	5	1 0	184	23·4	24·83	146	113
D	Rotherham (Ulley Res.) (1)	Vincent Turner, Esq., C.E.	5	1 0	184	..	23·98	147	113
D	Rotherham (Ulley Res.) (3)	Vincent Turner, Esq., C.E.	5	1 0	132	23·2	24·69	146	112
D	Wincobank (Sewage Works) (+A)	J. Haworth, Esq.	5	2 0	90	23·0	24·85	169	119
D	Rotherham (Sitwell Vale)	G. Howard, Esq.	5	1 0	300	26·0	26·10	183	132
D	Rotherham (Kimberw'rth Sch.)	Vincent Turner, Esq., C.E.	5	1 0	258	24·7	24·01	175	120
D	Rotherham (Aldwarke Sew. Wks.)	James H. Kershaw, Esq.	5	1 4	71	24·7	23·94	174	113
D	Rotherham (Thrybergh)	F. O. Kirby, Esq., C.E.	8	1 0	184	23·8	22·48	196	120
D	Rawmarsh	L. Atkinson, Esq.	5	1 0	225	..	24·03	183	113
D	Conisborough (Firsby Res.)	F. O. Kirby, Esq., C.E.	8	1 4	189	26·1	24·76	203	134
	Ewden (Middle Moss)	Sheffield Corporation W.W.	5	1 0	1600	51·0	51·18	..	..
	Ewden (Broomhead Moor)	Sheffield Corporation W.W.	5	1 0	1370	48·6	49·25	..	..
D	Ewden (Canyard Brook)	Sheffield Corporation W.W.	5	1 0	585	..	42·40	211	150
	Ewden (Candle Rush)	Sheffield Corporation W.W.	5	1 0	1400	..	52·43	..	..
	Ewden (Wightwizzle)	Sheffield Corporation W.W.	5	1 0	860	41·5	46·61	..	..
	Ewden (Broomhead Hall)	Sheffield Corporation W.W.	5	1 0	905	42·1	41·58	..	..
D	Ewden (More Hall Reservoir)	Sheffield Corporation W.W.	8	1 0	408	33·9	35·30	205	142
D	Ewden (Broomhead Reservoir)	Sheffield Corporation W.W.	8	1 0	600	35·6	40·55	212	153

§ Gauge possibly over-exposed.

DIVISION IX—YORKSHIRE—(*con.*).

	STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1932. Rainfall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
	WEST RIDING—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
	7.—OUSE—Don—(*con.*).								
	†Ewden (Margery Hill)..No. 1.....	Sheffield Corporation W.W..	5	1 0	1790	..	52·90	..	..
	Ewden (Margery Hill)..No. 2.....	Sheffield Corporation W.W..	5	1 0	1784	..	53·92	..	..
	Ewden (Waldershaigh)	Sheffield Corporation W.W..	..	..	875	35·3	37·52	..	..
	Ewden (Brown Edge).....	Sheffield Corporation W.W..	5	1 0	1325	50·5	51·63	..	..
D	Wentworth Woodhouse.....	Mr. A. Third.....	5	0 10	360	27·2	29·54	184	131
D	Mexborough.....	G. Fenwick Carter, Esq., C.E.	5	1 6	77	22·4	21·29	173	115
	Wortley (Service Reservoir).....	J. R. Fox, Esq., C.E.....	5	1 0	700	30·0	31·21	201	142
	Midhope Moor (Barnside).....	J. R. Fox, Esq., C.E.....	5	1 0	1000	43·4	41·67	230	149
	Little Don Val. (Laund Clough) ...	Sheffield Corporation W.W..	5	1 0	1515	..	57·00	..	..
D	Little Don Val. (Underbank Res.)..	Sheffield Corporation W.W..	8	1 6	604	34·6	38·76	206	148
	§Little Don Val. (Brockholes).....	Sheffield Corporation W.W..	5	1 0	902	34·0	39·00	..	..
	Little Don Val. (Sheep House).....	Sheffield Corporation W.W..	5	1 6	945	34·2	33·52	..	..
	§Langsett Moor (Midhope).....	J. R. Fox, Esq., C.E.....	5	1 0	830	..	36·54	207	143
	Langsett Moor (Midhope) *new g.* ..	J. R. Fox, Esq., C.E.	5	1 0	823	..	(45·27)	..	..
D	Langsett Moor (Up. Midhope).....	Sheffield Corporation W.W..	8	1 6	925	41·6	40·54	220	144
	Langsett Moor (Mickleden).....	Sheffield Corporation W.W..	5	1 0	1217	48·0	51·75	..	..
	Langsett Moor (Mickleden) *new g.*..	Sheffield Corporation W.W..	5	1 0	1110	..	54·73	..	..
	Langsett Moor (Catclough).....	Sheffield Corporation W.W..	8	1 0	1516	47·8	52·84	..	..
	Langsett Moor (Fiddlers Green)....	Sheffield Corporation W.W..	8	1 6	1493	48·7	51·49	..	..
	Langsett Moor (Fiddler's G.) *new g.*.	Sheffield Corporation W.W..	5	1 0	1480	..	52·50	..	..
	Langsett Moor (Border Hill).....	Sheffield Corporation W.W..	5	1 0	1148	46·9	47·03	..	..
D	Langsett Moor (Swinden Lodge)...	Sheffield Corporation W.W..	8	1 0	1037	44·0	46·85	232	164
D	Langsett Moor (Flouch Road).....	Sheffield Corporation W.W..	8	1 0	960	40·3	44·66	221	154
D	Wath-upon-Dearne (Chapel St.)...	Dr. T. Crowley.....	8	1 3	188	24·8	22·95	177	118
D	Doncaster (Pumping Station) *new g.*.	F. O. Kirby, Esq., C.E.....	5	1 0	31	..	25·17	167	125
D	Doncaster (Avenue Road).....	M. H. Stiles, Esq.....	5	1 3	60	25·2	26·24	171	119
D	Bolton-on-Dearne (Goldthorpe)...	E. Washington, Esq.....	5	1 6	93	24·3	23·46	200	126
W	Dunford Bridge (Windledon).....	Dewsbury Water Works....	8	2 2	1100	49·3	53·87	..	..
D	Dunford Bridge Res.....	Dewsbury Water Works....	8	2 0	1111	49·2	53·48	221	165
W	Dunford Bridge (Dearden).....	Dewsbury Water Works....	8	1 6	1244	49·3	52·67	..	..
W	Dunford Bridge (Harden).....	Dewsbury Water Works....	8	2 0	1300	50·9	53·88	..	..
W	Dunford Bridge (Snailsden).....	Dewsbury Water Works....	8	2 0	1477	50·8	58·59	..	..
	Penistone (Scout Dike Res.).....	J. R. Fox, Esq., C.E.....	5	1 0	730	32·8	32·19	221	150
	Penistone (Ingbirchworth Res.)...	J. R. Fox, Esq., C.E.....	5	1 0	853	38·0	39·62	206	128
	Penistone (Broadstone Res.).....	J. R. Fox, Esq., C.E.....	5	1 0	..	36·8	37·41	198	160
D	Barnsley (Jordan Hill).....	J. R. Fox, Esq., C.E.....	5	1 0	460	26·2	24·51	204	127
D	Bentley Colliery.....	Messrs. Barber, Walker & Co., Ltd.	5	1 0	23	..	23·69	159	111
d	Cawthorne (Cannon Hall).....	J. M. Spencer Stanhope, Esq.	5	0 11	418	29·1	25·26	..	117
D	Barnsley (Burntwood Hall).....	J. Dymond, Esq.....	5	1 0	378	25·9	24·03	185	124
d	Kirk Bramwith.....	C. E. Farran, Esq., C.E.....	5	1 6	22	23·2	22·93	..	..
D	Goole.....	Aire & Calder Navigation...	5	1 0	18	22·9	25·41	179	129
	8.—OUSE—Aire—Calder. 361 sq. mi.								
D	Holmbridge (Yateholme Res.)....	W. H. Duckworth, Esq.,C.E.	5	1 0	1009	59·2	64·66	236	174
D	Holmbridge (Yateholme Farm)...	W. H. Duckworth, Esq.,C.E.	5	1 0	861	56·4	64·61	236	174
	Holmbridge (Bilberry Res.).....	Messrs. Mallinson & Son....	5	1 0	970	52·4	52·26	..	..
	Holmfirth (Holme Styes Res.)	Messrs. Mallinson & Son	5	1 0	830	45·7	47·82	..	..
	Holmfirth (Boshaw Whams R.) ...	Messrs. Mallinson & Son....	5	1 0	930	49·7	(47·15)	..	..
D	Holmfirth (Thongsbridge).....	Mrs. Robson.....	8	1 0	..	46·2	45·88	201	160
D	Holmfirth (Snape Res.).....	Holmfirth U.D.C.....	6	1 0	1060	..	48·88	227	167
	Meltham (Harden Moss)..*new g.*.	J. W. Armitage, Esq., C.E..	8	1 0	1212	..	52·68	..	..
	‖Wessenden Head.....*new g.*.	J. W. Armitage, Esq., C.E..	8	1 0	1270	..	46·12	..	..
	Wessenden (Holly Bank Moss)....	J. W. Armitage, Esq., C.E..	8	1 0	1280	..	46·69	..	..
	‖Wessenden (Old Reservoir).....	J. W. Armitage, Esq., C.E..	8	1 0	940	..	46·05	..	..
	Wessenden (Butterley Moss).....	J. W. Armitage, Esq., C.E..	8	1 0	1110	..	43·98	..	..
D	Netherthong Nat. School	S. D. Butterworth, Esq. ...	5	1 0	700	..	45·29	195	161
	‖Wessenden (Bobus).....	J. W. Armitage, Esq., C.E..	8	1 0	1200	..	(42·77)	..	..
	‖Meltham (Brow Grains).....	J. W. Armitage, Esq., C.E..	8	1 0	900	45·0	49·02	..	..
	Meltham (Royd Edge).....	C. L. Brook, Esq.....	8	1 0	585	48·3	49·11	..	..
D	Meltham (Harewood Lodge).....	C. L. Brook, Esq.....	8	1 0	514	44·5	44·57	219	163
	Meltham Grange.....	J. W. Armitage, Esq., C.E..	8	1 0	850	41·1	44·35	..	..
	‡Marsden Reservoir.....	L.M. & S. Rly.....	8	2 4	692	50·5	48·68	..	..

† Gauge over-exposed on Moor.
‖ Gauge in 6ft. square iron hurdle fence, 6ft. high.
‡ Gauge on a steep bank.
§ Turf wall erected round gauge, January, 1931.

DIVISION IX—YORKSHIRE—(*con.*).

	STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1932. Rainfall.	1932. Days with ·01 in. or more.	1932. Day with ·04 in. or more.
	WEST RIDING—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
	8.—OUSE—Aire—Calder—(*con.*).								
	Marsden (Deer Hill)	J. W. Armitage, Esq., C.E..	8	1 0	1149	42·8	51·38	..	..
	Marsden (Deer Hill) *new g*	J. W. Armitage, Esq., C.E..	8	1 0	1149	45·0	50·15	..	..
D	Slaithwaite (Blackmoorfoot)	J. W. Armitage, Esq., C.E..	8	1 0	800	43·1	41·14	226	156
D	Slaithwaite (Inglewood)	J. Woodhead, Esq.	5	1 0	546	43·5	42·89	226	164
d	Huddersfield (Bank Field, Golcar)	Miss M. J. R. Sykes	6	1 0	400	39·0	39·73	..	152
D	Huddersfield (Ravensknowle)	Dr. Woodhead	8	0 11	325	30·1	26·40	206	125
w	Huddersfield (Langley Ter.) (No. 1)	S. Morris Bower, Esq.	5	1 0	761	33·7	32·65	..	..
	Huddersfield(Crosland Rd.) (No. 2)	S. Morris Bower, Esq.	4	1 0	761	35·2	32·21	..	..
D	Huddersfield (Oakes)	S. Morris Bower, Esq.	5	1 0	761	34·3	32·12	213	147
w	Moss Moor (Linsgreave)	C. Clemesha Smith,Esq.,C.E.	5	1 0	1264	51·2	52·79	..	..
D	Rishworth (G. Walden Edge) *old*	C. Clemesha Smith,Esq.,C.E.	8	1 2	1135	49·3	50·13	235	176
D	Rishworth (G.Walden Edge) *check g*	C.ClemeshaSmith,Esq.,C.E.	5	1 0	1135	..	50·47	235	175
D	Rishworth G.Walden Edge) *S. g.*	C.Clemesha Smith,Esq.,C.E.	5	1 0	1135	..	52·28	235	176
w	Rishworth (Stott Hall) *new*	C. Clemesha Smith,Esq.,C.E.	5	1 0	935	45·0	47·21	..	..
D	Rishworth Lodge	C. Clemesha Smith,Esq.,C.E.	5	0 11	950	..	44·25	231	169
D	Rishworth (Green Withens Res.)	C. Clemesha Smith,Esq.,C.E.	5	1 0	1205	48·2	46·67	236	174
D	Rishworth (Ringstone Res.) W.	C.Clemesha Smith,Esq.,C.E.	5	1 0	940	..	46·10	223	164
D	Rishworth (Ringstone Res.) (Lower)	C. Clemesha Smith,Esq.,C.E.	5	1 0	962	45·8	47·29	223	167
w	Rishworth Moor (Greystones)	C. Clemesha Smith,Esq.,C.E.	5	1 4	1192	50·6	54·59	..	..
D	Soyland Moor (Rishworth Drain)	C. J. Batley, Esq., C.E.	8	1 0	1290	52·9	54·16	194	154
w	Soyland Moor (Summit) (East)	C. Clemesha Smith,Esq.,C.E.	5	0 11	1218	51·0	57·48	..	..
D	Soyland Moor (Stansfield Hey)	C. Clemesha Smith,Esq.,C.E.	5	1 0	700	..	43·08	215	159
D	Soyland Moor (Baitings Gate)	C. Clemesha Smith,Esq.,C.E.	5	1 0	943	50·6	52·54	246	169
D	Soyland Moor (Byron Edge)	C. J. Batley, Esq., C.E.	8	1 0	1251	48·3	43·77	194	153
w	Soyland Moor (Manshead)	C. Clemesha Smith,Esq.,C.E.	5	1 0	1225	48·8	52·08	..	..
D	Walsden (White Holme)	C. J. Batley, Esq., C.E.	8	1 0	1240	42·5	44·96	194	151
D	Walsden (Calf Lee)	Rochdale Corporation	8	1 0	960	39·9	49·60	229	169
D	Walsden (Warland Res.)	Rochdale Corporation	8	1 0	1245	48·6	52·81	239	171
D	Walsden (Warland Drain)	Rochdale Corporation	8	1 0	1250	41·9	48·66	236	165
	Walton Hall	E. T. B. Simpson, Esq.	5	0 10	137	22·5	20·86	..	..
D	Horbury (Addingford Hos.)	J. H. Horsfall, Esq.	8	1 0	169	23·3	21·24	187	121
D	Mirfield (Cote Wall)	F. P. Mitchell, Esq.	8	1 0	200	30·2	24·84	162	126
d	Wakefield (Northgate)	J. H. Garner, Esq.	8	1 0	174	21·7	19·15	..	..
D	Wakefield (Clarence Park)	C. Clemesha Smith,Esq.,C.E.	5	1 0	124	25·4	21·75	207	120
d	Wakefield (Fieldhead Res.)	C. Clemesha Smith,Esq.,C.E.	5	1 0	250	24·0	19·46	..	111
D	Normanton (Haw Hill Park)	The Surveyor, U.D.C.	8	1 1	136	23·3	21·76	180	113
w	Walsden (Ramsden Hill)	Rochdale Corporation	5	1 0	1326	52·0	51·70	..	..
D	Walsden (Ramsden Reservoir)	Rochdale Corporation	5	1 0	993	52·7	51·54	210	172
D	Todmorden (Fielden Hospital)	L. A. Crabtree, Esq.	5	1 0	650	43·8	42·00	222	165
D	Todmorden (Sourhall Hospital)	L. A. Crabtree, Esq.	5	1 0	1020	53·8	53·07	219	173
d	Halifax (Public Library)	E. Green, Esq.	8	1 0	625	34·3	30·73	..	..
D§	Dewsbury(Mitchell Laithes Sew.Wks.)	The Manager	8	1 0	115	..	20·30	169	115
D	Dewsbury (Crow Nest Park)	H. Roscoe, Esq.	8	0 9	277	..	22·10	178	128
D	Batley (Staincliffe Reservoir)	W. H. Duckworth, Esq.,C.E.	5	1 0	492	24·1	23·17	167	120
D	Ardsley (Jaw Hill Filters)	C. Clemesha Smith,Esq.,C.E.	5	1 0	315	22·4	21·98	162	127
D	Ardsley Reservoir Upper	C. Clemesha Smith,Esq.,C.E.	5	1 2	395	23·9	21·78	176	119
D	Ardsley Reservoir Lower	C. Clemesha Smith,Esq.,C.E.	5	1 2	326	23·8	21·99	176	119
D	Halifax W.W. (Albert)	E. P. Brook, Esq., C.E.	5	1 0	795	35·3	34·12	200	146
D	Halifax W.W. (Gibbet)	E. P. Brook, Esq., C.E.	5	1 0	568	34·6	32·37	180	144
D	Halifax W.W. (Ramsden Wood)	E. P. Brook, Esq., C.E.	5	1 0	815	38·3	36·52	171	151
D	Hebden Bridge (Burnside)	Miss M. Hoyle,	5	1 0	830	43·9	41·71	232	167
D	Halifax W.W. (Castle Carr Lo.)	E. P. Brook, Esq., C.E.	5	1 0	1060	41·2	40·29	235	162
w	Halifax W.W. (Midgley Mr.) *new*	E. P. Brook, Esq., C.E.	8	1 0	1350	42·7	43·40	..	..
w	Halifax W.W. (Warley Mr.) *new*	E. P. Brook, Esq., C.E.	8	1 0	1325	41·4	41·18	..	..
w	Halifax W.W. (Ovenden Mr.) *new*	E. P. Brook, Esq., C.E.	8	1 0	1375	41·8	43·78	..	..
w	Halifax W.W. (Gorple)	E. P. Brook, Esq., C.E.	8	1 0	1320	47·0	42·14	..	..
D	Halifax W.W. (Gorple Res.)	E. P. Brook, Esq., C.E.	5	1 6	1028	41·1	45·24	228	169
D	Halifax W.W. (Widdop)	E. P. Brook, Esq., C.E.	5	1 0	1050	46·3	45·73	229	174
D	Halifax W.W. (Walshaw Dean L.)	E. P. Brook, Esq., C.E.	5	1 0	1040	48·1	45·74	225	161
w	Halifax W.W. (Walshaw Dean)	E. P. Brook, Esq., C.E.	8	1 0	1380	44·8	44·19	..	..

§Exposure unorthodox.

DIVISION IX—YORKSHIRE—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Rain-gauge: Average Rainfall.	1932. Rainfall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
WEST RIDING—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
9.—OUSE—Aire. 504 sq. mi.								
D Pontefract (The King's School)	A. Hudson, Esq.	5	1 0	255	23·3	21·73	160	108
D Pontefract (Roall W.W.)	W. H. Newton, Esq., C.E.	8	1 0	42	23·0	21·40	177	109
Bradford (Grange Rd., Horton)	A. E. Chilton, Esq.	5	3 0	450	34·3	29·99	183	148
Bradford (Brayshaw Reservoir)	Bradford Corporation W.W.	5	1 0	982	36·5	35·13	..	..
D Bradford (Lister Park)	Mr. J. Moorby	8	1 0	439	33·9	29·60	172	137
D Bradford (Thornton Moor Filters)	Bradford Corporation W.W.	5	1 0	1190	44·3	43·05	224	166
D Bradford (Stubden Res.) No. 8.	Bradford Corporation W.W.	5	1 0	1071	44·9	41·27	198	158
M Bradford (Nan Scar, Oxenhope)	Bradford Corporation W.W.	5	1 0	1101	47·6	(44·71)	..	..
M Bradford (Stairs Top, Oxenhope)	Bradford Corporation W.W.	5	1 0	1360	..	(51·06)	..	..
D Bradford (Leeming Reservoir)	Bradford Corporation W.W.	5	1 0	850	41·0	42·47	207	163
M Bradford (Doe Park Reservoir)	Bradford Corporation W.W.	5	1 0	760	..	38·62	..	..
M Bradford (Leeshaw Res.)	Bradford Corporation W.W.	5	1 0	875	47·3	49·66	..	..
D Bradford (Chellow Dean Res.)	Bradford Corporation W.W.	5	1 0	645	34·5	33·50	186	156
D Bradford (Chellow Heights Res.)	Bradford Corporation W.W.	5	1 0	848	36·6	30·05	154	147
Bradford (Hewenden Res.)	Bradford Corporation W.W.	5	1 0	701	..	36·64	..	..
M Bradford (Heaton Reservoir)	Bradford Corporation W.W.	5	1 0	531	..	30·09	..	..
Leeds (Wortley Reservoir)	H. Shortreed, Esq., C.E.	8	0 9	307	28·1	22·20	178	123
Leeds (Knostrop)	H. Shortreed, Esq., C.E.	8	0 9	72	24·0	20·59	150	112
Leeds (Great George Street)	H. Shortreed, Esq., C.E.	5	0 9	180	26·0	22·15	164	123
Leeds (Woodhouse Moor)	H. Shortreed, Esq., C.E.	8	0 9	307	26·7	23·81	208	134
D Seacroft (Leeds City Hospital)	Dr. J. S. Anderson	8	1 0	235	29·3	24·45	150	121
Leeds (Weetwood Res.)	H. Shortreed, Esq., C.E.	8	0 9	328	27·5	24·94	194	139
d Leeds (Weetwood Garth)	Mrs. F. Gott, J.P.	5	1 0	300	27·7	26·52	..	126
D Leeds (Weetwood)	F. J. Kitson, Esq.	5	2 0	250	28·4	24·85	166	126
Leeds (Allerton Hill)	T. Harding Churton, Esq.	5	0 8	418	..	22·97	..	..
D Haworth (Harbour Lodge)	A. Atkinson, Esq., C.E.	8	1 0	1187	52·5	50·07	212	164
D Haworth (Lower Laithe Res.) (+A)	A. Atkinson, Esq., C.E.	6	0 10	772	48·1	45·67	209	160
D Oakworth (Oldfield Filters)	A. Atkinson, Esq., C.E.	5	1 0	1008	44·6	44·24	212	171
D Bingley (Sewage Works)	J. R. Brown, Esq.	5	1 1	227	34·6	32·03	151	127
D Rawdon	Rawdon U.D.C.	5	1 0	579	29·0	22·56	170	120
D Bingley (Gilstead Filters)	Bradford Corporation W.W.	5	1 0	572	..	30·91	191	152
D Bingley (Park Top)	M. E. Burton, Esq.	5	1 0	650	35·3	31·34	197	153
D Keighley (The Knowle)	P. Clough, Esq.	5	1 0	390	38·0	36·49	197	141
D Keighley (Victoria Park)	Mr. R. Butterfield	5	1 0	304	35·7	32·60	194	146
D Bingley (East Morton)	J. Rhodes, Esq.	5	1 0	530	32·2	29·16	192	151
Bingley (Sunnydale Reservoir)	Bradford Corporation W.W.	5	1 0	825	33·1	(28·63)	..	..
D Salterforth (Barnoldswick W.W.)	Barnoldswick U.D.C.	8	1 4	832	46·6	55·62	222	159
D Earby (Sewage Works) (+A)	The Surveyor)	5	1 9	426	39·3	40·46	187	147
M Silsden (Gill Grange)	Bradford Corporation W.W.	5	1 0	883	30·8	30·71	..	..
D Silsden Reservoir	Bradford Corporation W.W.	5	1 0	560	31·2	33·77	192	156
M Silsden (Cringles Res. Site)	Bradford Corporation W.W.	5	1 0	715	31·3	32·07	..	..
D Elslack (Stories Farm) *new g.*	Barnoldswick U.D.C.	5	1 0	675	..	40·71	205	156
Carleton (Beech Hill)	W. Cyril Empson, Esq.	8	1 3	425	37·8	37·01	..	..
D Skipton (Town Hall) (A)	A. E. W. Aldridge, Esq.	6	1 6	367	33·5	31·02	187	147
Gargrave (Banks Hill Bank Nwtn.)	Leeds & Liv'pool Canal Co.	8	1 0	545	35·5	38·85	..	..
Gargrave (Ray Bridge Hill)	Leeds & Liv'pool Canal Co.	8	0 10	459	34·2	48·18	..	..
D Skipton (Embsay Moor)	A.E.W. Aldridge, Esq.	5	1 0	670	..	35·21	197	150
Winterburn (Long Hill)	Leeds & Liv'pool Canal Co.	8	1 0	705	37·8	45·36	..	..
Winterburn (Brown Hill)	Leeds & Liv'pool Canal Co.	8	1 0	961	42·8	51·48	..	..
10.—OUSE—Wharfe. 408 sq. mi.								
D Aberford (Lotherton Hall)	Col. R. T. T. Gascoigne, D.S.O.	5	1 0	208	23·1	25·99	172	129
Adel (Eccup, East)	H. Shortreed, Esq., C.E.	8	0 9	375	29·3	27·35	227	132
Harewood (Arthington)	H. Shortreed, Esq., C.E.	8	0 9	139	32·0	26·41	207	141
D Harewood House	Dowager Countess of Harewood.	5	0 10	300	29·7	29·61	165	131
D Otley (Sewage Works)	C. F. Hodgson, Esq., C.E.	5	1 0	172	..	24·80	163	126
D Ilkley (Silverwell Cottage)	Surveyor, U.D.C.	5	1 0	900	38·2	36·77	211	165

DIVISION IX—YORKSHIRE—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1932. Rainfall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
WEST RIDING—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
10.—OUSE—Wharfe—(*con.*).								
D Ilkley (Spence's Garden)	Surveyor U.D.C.	5	1 0	314	35·1	30·33	166	144
D Ilkley (Crossbeck Road)	Rev. W. Robinson	5	1 6	570	36·5	30·05	152	128
Leathley (Lindley Wood, S.)	H. Shortreed, Esq., C.E.	8	0 9	312	31·6	27·94	196	130
D Ilkley (March Gill Reservoir)	C. F. Hodgson, Esq., C.E.	5	1 0	655	34·0	31·75	211	156
D York (Middlethorpe Hall)...No. 2.	Mr. J. Fletcher	5	1 0	48	..	25·76	203	119
D York (Chalfonts)	Arnold S. Rowntree, Esq.	5	0 9	57	..	25·20	171	120
D York (Bishopthorpe Road)	J. Terry & Sons Ltd.	5	1 0	54	..	23·37	173	111
d York (Cherry Hill)	Messrs. H. Richardson & Co.	5	1 6	50	24·2	24·53	..	..
D York (Acomb Landing)	W. H. Humphreys, Esq., C.E.	5	1 0	40	22·6	21·83	165	109
M Skipton (Counter Hill)	Bradford Corporation W.W.	5	1 0	951	30·2	29·90	..	..
M Skipton (Chelker Reservoir)	Bradford Corporation W.W.	5	1 0	730	32·9	32·09	..	..
Fewston (Timble Ings)	H. Shortreed, Esq., C.E.	8	0 9	912	35·5	35·64	192	148
Fewston (Swinsty, East)	H. Shortreed, Esq., C.E.	8	0 9	460	34·4	30·42	180	131
Fewston, North	H. Shortreed, Esq., C.E.	8	0 9	525	..	33·70	216	146
Fewston (Blubberhouses)	H. Shortreed, Esq., C.E.	8	0 9	575	37·1	34·34	198	150
D Bolton Abbey Estate Office	A. Downs, Esq.	5	1 2	368	36·3	35·45	210	148
D Barden Reservoir	Bradford Corporation W.W.	5	1 0	746	41·8	44·27	222	160
M Upper Barden Reservoir	Bradford Corporation W.W.	5	1 0	1170	..	43·14	..	..
Thruscross (Lane Head)	H. Shortreed, Esq., C.E.	8	0 9	950	..	36·08	230	154
M Burnsall (Thorpe Fell)	Bradford Corporation W.W.	5	1 0	1661	..	(45·44)	..	..
M Burnsall (Sandbed Beck)	Bradford Corporation W.W.	5	1 0	676	41·0	46·67	..	..
D Burnsall Rectory	Rev. J. Wood	8	4 1	504	43·0	43·63	199	159
d Grassington (Greenways)	Mrs. D. Sampson	5	0 5	700	..	45·96	(189)	(155)
D Grimwith Reservoir	Bradford Corporation W.W.	5	1 0	893	43·9	42·49	209	161
M Grimwith (Trunla Hill)	Bradford Corporation W.W.	5	1 0	1201	..	47·24	..	..
D Buckden	G. E. Clayton, Esq.	5	1 0	800	54·9	58·94	218	170
D Oughtershaw Hall	Miss G. J. Woodd	5	1 6	1175	67·8	65·13	238	186
11.—OUSE—Nidd. 254 sq. mi.								
d Wetherby (Stockeld Park)	H. Demaine, Esq.	5	1 2	200	25·8	25·46	..	120
Spofforth (Sewage Works)	C. E. Rivers, Esq., C.E.	5	1 0	184	27·0	28·91	184	123
D Tockwith School	W. Kirk, Esq.	5	1 0	200	23·2	28·07	191	125
d Poppleton	Second Anglo-Scottish Sugar Corpn.	8	0 8	60	..	(23·37)	..	..
D Wetherby (Ribston Hall)	The Head Gardener	5	1 2	130	26·5	29·28	192	133
M Harrogate W.W. (Ling Cottage)	A. S. West, Esq., C.E.	5	1 0	740	30·5	28·80	..	..
M Harrogate W.W. (Broad Dubb)	A. S. West, Esq., C.E.	5	1 0	725	31·8	29·40	..	..
M Harrogate W.W. (Cobblers Cott.)	A. S. West, Esq., C.E.	5	1 0	730	30·9	28·77	..	..
D Harrogate W.W. (Ten Acres Res.)	A. S. West, Esq., C.E.	8	1 6	620	..	31·85	194	150
D Harrogate W.W. (Scargill Res.)	A. S. West, Esq., C.E.	8	1 0	646	32·4	31·05	197	152
D Harrogate W.W. (Beaver Dyke R.)	A. S. West, Esq., C.E.	8	0 11	575	31·0	30·75	196	150
M Harrogate W.W. (John o' Gaunts)	A. S. West, Esq., C.E.	5	1 0	600	31·2	30·88	..	..
M Harrogate W.W. (Long Stoop)	A. S. West, Esq., C.E.	5	1 0	700	31·3	31·20	..	..
M Harrogate W.W. (Knab's Moor)	A. S. West, Esq., C.E.	5	1 0	700	30·0	28·24	..	..
D Harrogate (Harlow Moor Obsy.)	C. E. Rivers, Esq., C.E.	5	1 0	478	30·6	26·88	171	124
D Harrogate (Harlow Hill Res.)	A. S. West, Esq., C.E.	8	1 0	589	..	28·46	173	132
D Harrogate (Duchy Road)	J. S. Farrah, Esq.	5	1 0	450	29·2	28·28	173	134
D Harrogate (Irongate Bridge Res.)	A. S. West, Esq., C.E.	8	1 6	455	29·3	30·05	175	134
d Knaresborough (Goldsbro Hall Gdns)	Mr. R. Wilson	5	1 0	112	25·8	28·63	171	128
D Knaresborough (The Abbey)	Rev. Canon J. T. Hartley	5	1 0	140	26·3	28·79	185	136
d Knaresborough (Water Tower)	A. S. West, Esq., C.E.	8	1 0	240	..	(30·24)	(173)	(132)
Harrogate (Bilton Sewage Works)	C. E. Rivers, Esq., C.E.	5	1 0	208	28·5	27·15	175	132
D Birstwith Hall	Sir F. A. Aykroyd, Bt.	5	1 0	400	34·4	32·05	196	141
D Birstwith (Swarcliffe)	Capt. C. S. Greenwood	5	1 0	510	33·9	29·93	171	138
Ramsgill (Holme Ho. Gouthwaite)	Bradford Corporation W.W.	5	1 0	464	39·9	35·67	..	..
D Ramsgill (Raygill House)	Bradford Corporation W.W.	5	1 0	925	46·7	46·72	179	154
D Ramsgill	Bradford Corporation W.W.	5	1 0	450	..	42·37	168	154
Middlesmoor (Stean Moor)	Sir F. A. Aykroyd, Bart.	5	1 0	1100	49·6	51·44	..	..
M Nidderdale (East Gill Head)	Bradford Corporation W.W.	5	1 0	1710	57·6	58·75	..	..
M Nidderdale (Rain Stang)	Bradford Corporation W.W.	5	1 0	1470	47·4	48·38	..	..
D Nidderdale (New Houses)	Bradford Corporation W.W.	5	1 0	755	..	45·66	197	162
D Nidderdale (West Houses)	Bradford Corporation W.W.	5	1 0	1165	52·5	60·87	243	179

DIVISION IX—YORKSHIRE—(*con.*).

	STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1932. Rainfall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
	WEST RIDING—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
	12.—OUSE—Ure. 110 sq. mi.								
	Dallow Moor (Harper Hill)	H. Shortreed, Esq., C.E.	8	0 9	858	..	31·88	158	155
D	Ripon (Studley Royal Gdns.)	F. M. Sutherland, Esq.	5	1 6	250	29·1	25·00	152	139
D	Ripon (The Red House)	F. D. Wise, Esq., C.E.	5	1 0	120	27·2	25·15	169	123
	Kirby Malzeard (Drovers' Inn)	H. Shortreed, Esq., C.E.	8	0 9	576	36·0	36·96	198	150
	Kirby Malzeard (Hawsett)	H. Shortreed, Esq., C.E.	8	0 9	820	37·1	36·90	209	156
	Kirby Malzeard (Hambleton H.)	H. Shortreed, Esq., C.E.	8	0 9	1106	39·7	37·79	..	..
	Kirby Malzeard (Bagwith Brae)	H. Shortreed, Esq., C.E.	5	0 9	703	32·9	31·81	220	145
	Kirby M. (Stone & Ears Wham.)	H. Shortreed, Esq., C.E.	8	0 9	1118	39·7	34·27	..	..
	EAST RIDING. (Area, 1,176 sq. mi.).								
	1.—OUSE—Left Bank Tributaries. 82 sq. mi.								
D	Osgodby (Fruit Testing Stn.)	J. W. Eves, Esq.	5	1 0	30	..	24·29	171	120
D	York (Heslington)	Hn. L. de Yarburgh-Bateson	8	1 0	39	..	27·10	195	131
D	York (Dunnington Hall)	Miss E. C. Hildyard	8	1 2	110	..	25·89	..	137
	2.—OUSE—Derwent. 248 sq. mi.								
D	Birdsall Gardens	Mr. J. Anderson	5	1 2	308	..	25·54	173	127
D	Westow Vicarage	Rev. G. T. W. Purchas	5	1 0	190	..	22·59	208	125
D	Rillington (Scampston Hall)	W. H. St. Quintin, Esq.	5	1 6	102	..	24·97	203	140
D	Ganton (Ganton Hall)	Harold Wrigley, Esq.	5	1 0	250	..	25·66	203	139
	3.—HUMBER—Left Bank Tributaries. 675 sq. mi.								
D	Spurn Head *new g*	The Meteorological Office	8	1 0	29	24·0	20·03	158	111
D	Patrington (Rose Cottage)	Miss S. A. Kirman, for M.O.	5	1 3	46	23·3	21·19	162	127
D	Patrington Rectory	Rev. P. R. Frost	5	1 0	50	..	20·20	182	120
D	Hull (Pearson Park)	The Superintendent	5	0 10	8	25·4	22·44	194	122
D	Hull (Springhead)	W. D. Bingham, Esq.	5	1 0	16	..	21·99	198	123
D	Cottingham (Waterworks)	W. D. Bingham, Esq.	5	1 0	26	..	23·11	202	127
D	Holme-on-Spalding Moor	C. J. Pybus, Esq.	8	1 0	30	..	25·31	192	145
D	Beverley (E. Riding Mental Hosp.)	Medical Superintendent	5	1 0	175	..	24·51	194	124
	Beverley (New Walk)	W. Evans, Esq., C.E.	5	3 0	38	..	25·38	212	..
	Beverley (Hull Bridge)	F. J. Affleck, Esq.	5	2 6	11	..	23·00	208	..
D	Market Weighton (Dalton Holme)	J. P. Jobling, Esq.	8	6 0	120	..	24·06	198	142
	Brandesburton (Hempholm Lk.)	F. J. Affleck, Esq.	5	2 6	11	..	22·87	155	..
D	Driffield (Council School)	The Headmaster	5	1 0	69	..	26·18	203	135
D	Lowthorpe (The Elms)	F. K. Hawes, Esq.	5	1 0	63	26·5	24·73	227	138
	4.—EAST COAST STREAMS. 171 sq. mi.								
D	Bridlington (Corpn. Nurseries)	Parks Superintendent	5	1 0	60	..	25·97	198	138
d	Bridlington (Grammar School)	The Headmaster	8	1 0	76	..	(25·75)	..	..
w	Burton Fleming	The Headmaster	5	0 4	128	..	27·15	..	..
M	Ganton (Willerby Wold)	Major W. F. Wormald	5	1 2	565	..	25·03	..	..
D	Filey Vicarage	Rev. Canon A. N. Cooper	8	1 0	96	..	22·98	201	125
	NORTH RIDING. (Area, 2,155 sq. mi.).								
	1.—OUSE—Ure. 273 sq. mi.								
D	West Tanfield Rectory	Mr. H. H. Milman	5	1 0	150	28·7	26·40	179	118
D	Masham Moor (Roundhill Res.)	A. S. West, Esq., C.E.	8	1 0	743	37·6	39·15	237	161
	Masham Moor (Somerside)	H. Shortreed, Esq., C.E.	5	0 9	928	38·8	39·71	199	164
	Masham Moor (High Sour Mire)	H. Shortreed, Esq., C.E.	5	0 9	884	31·2	37·06	..	..
	Masham Moor (Leighton Res.)	H. Shortreed, Esq., C.E.	5	0 9	634	35·9	35·57	211	136
	Masham Moor (Towler Hill)	H. Shortreed, Esq., C.E.	8	0 9	820	36·7	34·45	215	136
	Masham Moor (Breary Bank)	H. Shortreed, Esq., C.E.	5	0 9	600	36·8	36·99	220	150
	Masham Moor (Healey Pasture)	H. Shortreed, Esq., C.E.	5	0 9	620	36·1	35·68	218	143
	Masham Moor (Low Houses)	H. Shortreed, Esq., C.E.	5	0 9	693	37·9	38·05	231	163
D	Clifton Castle Gardens	Lady Cowell	5	1 0	360	29·9	28·43	176	126
	Middleham (Cotescue)	A. Rowntree, Esq.	5	1 0	600	..	28·55	177	133
D	Middleham (Castle Hill)	C. T. Dixon-Johnson, Esq.	5	1 0	470	31·7	28·43	180	134
D	West Burton (Flanders Hall)	G. T. Whitehead, Esq.	5	2 2	520	..	37·86	195	145

DIVISION IX—YORKSHIRE—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1932. Rainfall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
NORTH RIDING—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
1.—OUSE—Ure—(*con.*).								
D West Witton (Ivy House)	J. B. Espiner, Esq.	5	1 0	605	34·1	32·44	202	142
D Leyburn (Spennithorne)	F. M. Curtis, Esq.	5	1 0	416	..	28·65	222	140
D Leyburn (Bolton Hall)	Mr. F. Scrivener	8	1 0	420	32·6	31·44	198	136
d Hawes Junction (Moorland Cott.)	W. Garnett, Esq.	5	1 6	1125	..	72·47	(191)	(150)
2.—OUSE—Swale. 569 sq. mi.								
D Dalton Parsonage	Rev. G. H. Chilman	5	1 0	79	23·0	21·72	160	114
D Coxwold (The Old Hall)	H. Geipel, Esq.	4	1 6	260	26·1	27·76	155	123
d Thirsk (Sowerby)	Mrs. W. Brown	5	0 11	110	24·7	23·50	..	..
D Thirsk (Brynkellhow)	A. B. Hall, Esq.	8	1 0	115	24·6	23·99	172	117
D Thirsk (Stoneybrough)	T. J. Foggitt, Esq.	5	1 2	122	24·7	24·51	176	117
M Felixkirk (Thirlby)	A. J. Walker, Esq.	5	1 0	339	27·1	29·13	..	..
D Felixkirk (Mount St. John)..(+A)	A. J. Walker, Esq.	5	1 0	541	25·8	28·43	198	124
D Felixkirk (Mount St. John)	A. J. Walker, Esq.	5	1 0	541	26·5	28·27	194	126
D Bedale (Snape School)	The Headmaster	5	1 0	145	..	25·97	161	114
D Boltby (Ravensthorpe Manor)	F. E. Walker, Esq.	5	1 7	661	27·4	28·92	191	136
M Boltby, East	A. J. Walker, Esq.	5	1 0	460	26·2	30·10	..	..
M Boltby (High Paradise)	A. J. Walker, Esq.	5	1 3	1144	..	34·51	..	..
D Bedale (The Hermitage)	C. Clarke, Esq., F.S.I.	5	0 10	465	..	26·02	145	102
D Maunby Hall	Major A. Hill-Walker, V.C..	5	1 0	90	23·9	23·96	150	120
D Bedale (Park House)	Miss M. Greenwood	5	1 1	180	25·6	23·54	166	116
D Scruton Hall	A. Coore, Esq.	5	1 6	100	23·8	22·00	173	111
M Swaledale (Gunnerside Lodge)	W. M. Christy, Esq.	5	1 0	900	47·8	47·57	..	..
D Northallerton (Brompton)	J. P. Yeoman, Esq.	5	1 0	150	23·7	25·64	212	125
Osmotherly (Oakdale W.W.)	Northallerton U.D.C.	5	1 0	600	..	30·86	..	..
D Catterick	Meteorological Office	8	1 0	176	..	22·46	177	110
D East Harlsey (Harlsey Hall)	Mrs. Constantine	5	1 0	370	..	26·70	146	121
d Richmond (C.E. School)	R. Hornby Esq.,,	5	1 0	430	..	23·49	..	..
D Reeth (Arkengarthdale)	Samuel Gott, Esq.	5	1 0	940	41·0	43·53	171	154
w Middleton Tyas	Mrs. Baker-Baker	5	0 10	380	25·7	21·78	..	..
3.—OUSE—Left Bank Tributaries. 153 sq. mi.								
D York (Museum Gardens)	W. Watson, Esq.	5	1 0	57	24·3	24·91	179	114
d Stockton-on-Forest (Stockton Hall)	Mrs. Lloyd	5	1 1	30	21·5	20·57	..	..
Haxby (Moorlands)	E. G. Tew, Esq.	6	1 6	59	24·1	20·60	..	..
D Crayke Rectory	Rev. T. Catton	5	1 0	370	..	24·71	171	123
4.—OUSE—Derwent. 509 sq. mi.								
D Welburn	R. Child, Esq.	5	1 0	190	26·1	26·49	210	130
D Malton (Broughton Rise)	C. C. Laverack, Esq.	5	1 0	164	25·5	26·22	195	135
D Terrington (The Cliff)	Sir Alfred Lascelles	5	1 0	340	..	27·46	193	131
D Terrington Rectory	Rev. Canon Wimbush	8	1 0	250	..	24·74	188	126
D Hovingham Hall	Capt. W. A. Worsley	5	0 9	119	29·0	30·08	199	151
D Ampleforth College (*new site*)	The Procurator	5	1 0	313	..	28·11	190	134
D Oswaldkirk (Layesthorpe Hall)	Major G. B. Foster	5	1 0	231	..	27·06	168	132
D Helmsley (Boys' School)	E. W. Williams, Esq.	5	1 0	225	..	30·80	218	142
D Pickering (Hungate Hall)	Dr. J. L. Kirk	5	3 0	90	26·8	28·24	212	143
D Seamer (Irton Pump. Station)	H. Richardson, Esq., C.E. ..	8	1 0	94	28·7	24·72	188	127
D Scarborough (Osgodby)	H. Richardson, Esq., C.E...	8	1 0	166	26·1	24·92	216	122
D East Ayton (Derwent House)	A. H. Robinson, Esq.	5	1 0	110	27·0	26·96	185	140
d Kirkby Moorside (Ravenswyke)	Capt. V. H. Holt, M.C., J.P.	5	1 0	270	27·2	28·36	..	133
d Thornton Dale (High Dalby Ho.)	J. A. Coulson, Esq.	5	1 0	325	..	28·57	..	128
5.—ESK & C. 278 sq. mi.								
D Scarborough	Medical Officer of Health...	5	1 1	118	25·8	23·09	180	120
D Scarborough (Scalby)	Capt. W. H. L. Wordsworth	5	1 0	210	..	28·91	206	147
D Scarborough (Scalby, St. Philips)	Rev. W. E. Stewart	5	1 0	130	26·1	25·45	220	133
d Cloughton (Cober Hill)	The General Manager	5	1 0	250	..	31·94	..	133
D Egton Bridge (Bridgeholme)	Lt.-Col. R. Astley Smith....	5	1 0	150	33·3	36·17	193	151
D Glaisdale (The Gables Gardens)	Mr. H. Hope	5	0 9	400	35·6	40·52	173	153
D Sleights (The Hall)	P. M. Horsfall, Esq.	5	1 0	220	30·7	32·76	185	144
D Danby (The School House)	J. W. Lynas, Esq.	5	1 0	500	35·2	38·78	200	164
D Castleton	Miss M. H. Punch, for R.M.S.	5	1 0	425	..	37·15	221	149
D Danby Lodge	The Head Gardener	5	1 0	500	35·6	39·74	170	163

DIVISION IX—YORKSHIRE—(*con.*).

	STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1932. Rainfall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
	NORTH RIDING—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
	5.—ESK & C.—(*con.*).								
D	Whitby (Park Hall, Aislaby)	Rev. J. H. Richardson	5	1 0	500	30·7	31·63	206	137
D	Whitby (Westthorpe)	Rev. M. A. C. Horsfall	6	1 6	120	..	28·73	226	154
D	Whitby (Mulgrave Castle)	Mr. J. Corbett	5	1 0	410	29·1	30·61	216	143
D	Guisborough (Lockwood Res.)	Cleveland Water Co.	8	1 0	632	33·0	39·02	246	167
D	Saltburn (Skelton Castle)	Col. W. H. A. Wharton	5	0 9	272	28·1	29·90	188	147
	6.—TEES. 373 sq. mi.								
D	Ingleby Manor	Lord DeL'Isle & Dudley	5	1 2	460	33·9	31·92	198	143
D	Kildale Hall	Major R. B. Turton	5	1 2	600	35·5	36·95	193	144
D	Crathorne Hall Gardens	J. L. Dugdale, Esq.	5	1 3	107	25·0	24·30	174	125
D	Barningham Park	Sir F. Milbank, Bart.	8	1 0	700	32·6	33·07	221	157
D	Nunthorpe (The Box)	G. D. Cochrane, Esq.	5	1 0	287	25·2	27·79	203	137
d	Marton-in-Cleveland (Southleigh)	Miss H. D. Wilson,	5	0 11	100	24·2	26·31	..	..
D	Marton-in-Cleveland (Gartheen)	G. R. Collinson, Esq., C.E.	5	1 0	160	23·5	25·04	188	126
D	Middlesbrough (Albert Park)	R. Sutcliffe, Esq.	5	1 0	30	23·7	23·70	178	118
M	Baldersdale (Aygill)	G. R. Collinson, Esq., C.E.	5	1 0	1250	45·0	47·60	..	..
D	Lartington Filters	G. R. Collinson, Esq., C.E.	5	1 0	725	30·2	29·91	187	147
M	Baldersdale (Blackton Res.)	G. R. Collinson, Esq., C.E.	5	1 0	937	40·5	42·80	..	..
M	Baldersdale (Balderhead)	G. R. Collinson, Esq., C.E.	5	1 0	1360	45·7	48·70	..	..
D	Baldersdale (Hury R.) *old g site*	G. R. Collinson, Esq., C.E.	5	1 0	866	36·0	34·69	208	157
D	Baldersdale (Hury R.) *new g site*	G. R. Collinson, Esq., C.E.	5	1 0	862	37·3	35·99	208	157
M	Lunedale (Dow Crag)	G. R. Collinson, Esq., C.E.	5	1 0	1720	56·0	64·90	..	..
M	Lunedale (Lunehead)	G. R. Collinson, Esq., C.E.	5	1 0	1450	55·6	60·40	..	..
M	Lunedale (Selset)	G. R. Collinson, Esq., C.E.	5	1 0	924	40·8	42·20	..	..
D	Lunedale (Grassholme Res.)	G. R. Collinson, Esq., C.E.	5	1 0	936	39·7	38·00	198	159
M	Lunedale (Keekham)	G. R. Collinson, Esq., C.E.	5	1 0	1660	59·5	68·40	..	..
M	Lunedale (Hargill)	G. R. Collinson, Esq., C.E.	5	1 0	1320	53·4	58·70	..	..

DIVISION X—NORTHERN COUNTIES.

DURHAM. (Area, 1,011 sq. mi.).

	1.—TEES & C. 396 sq. mi.								
D	Darlington (South Park)	T. J. Morrison, Esq.	5	1 0	150	27·1	25·42	213	121
D	Darlington (Broken Scar)	G. R. Collinson, Esq., C.E.	5	1 0	158	26·2	23·37	171	121
D	Darlington (Stanhope Road)	Rev. A. W. M. Close	5	1 0	180	27·2	25·74	190	124
D	Darlington (Fighting Cocks Res.)	G. R. Collinson, Esq., C.E.	5	1 0	150	25·2	25·96	185	130
D	Egglescliffe	G. C. Jones, Esq.	8	1 2	100	24·0	26·25	181	121
D	Whorlton Vicarage	Rev. E. E. Gleaves	5	1 0	400	25·7	22·72	196	129
D	Piercebridge (Carlbury Hall)	J. H. Pease, Esq.	5	1 0	222	26·3	22·37	187	120
d	Gainford	H. L. Fife, Esq.	5	1 0	260	26·3	22·92	..	119
D	Barnard Castle (Bowes Museum)	S. E. Harrison, Esq.	6	1 0	500	30·4	27·56	225	140
D	Barnard Castle (County School)	The Bursar	5	1 6	540	29·1	28·24	215	141
D	Long Newton Reservoir	G. R. Collinson, Esq., C.E.	5	1 0	184	25·5	26·36	195	127
D	Stockton-on-Tees (Hartburn Lo.)	C. Nielson, Esq.	5	0 10	45	24·4	26·59	200	133
d	Stockton-on-Tees (Ropner Park)	W. A. Jenkins, Esq.	5	1 9	61	22·9	24·66	..	119
D	Stockton-on-Tees (Billingham)	I.C.I. (Fert. & Syn. Prod.) Ltd.	5	1 6	35	23·3	23·64	185	118
D	Staindrop (Raby Castle) *old g*	Lord Barnard	5	1 0	450	28·5	26·45	219	139
D	Staindrop (Raby Castle) *new g*	Lord Barnard	5	1 0	450	27·6	25·76	216	138
d	Stillington Park	Messrs. Dorman Long & Co. Ltd.	5	1 0	140	27·1	26·06	..	..
D	Eggleston House	The Headmaster	5	1 0	800	34·1	38·79	249	178
d	Middleton-in-Teesdale School	The Headmaster	5	1 0	740	35·9	43·76	..	..
D	Middleton-in-Teesdale (Newbiggin) *old g*	R. Coggins, Esq.	5	1 2	1000	40·9	46·37	227	177
D	Middleton-in-Teesdale (Newbiggin) *new g*	R. Coggins, Esq.	5	1 0	1000	40·8	45·99	224	177
d	Ferryhill (Winterton)	Medical Superintendent	5	1 0	365	26·6	26·39	..	129
D	Hurworth Burn (Crookfoot Res.)	J. R. Bradshaw, Esq.	10	1 6	296	25·4	23·47	203	120
d	West Hartlepool (Waterworks)	J. R. Bradshaw, Esq.	10	1 0	35	24·7	22·06	..	..
D	Hurworth Burn Reservoir	J. R. Bradshaw, Esq.	10	1 0	357	26·5	24·53	213	129
D	Hartlepool (Hart Reservoir)	J. R. Bradshaw, Esq.	10	1 0	172	..	22·08	206	125
D	Shotton (New Winning P. S.)	A. B. E. Blackburn, Esq., C.E.	8	1 0	402	29·4	26·03	209	134
D	Easington (Mill Hill Res.)	A. B. E. Blackburn, Esq., C.E.	8	1 0	521	..	26·12	205	129
D	Seaham (Dalton Pumping Sta.)	A. B. E. Blackburn, Esq., C.E.	8	1 0	345	27·0	26·44	211	136

DIVISION X—NORTHERN COUNTIES—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Rain-gauge: Average Rainfall.	1932. Rainfall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
DURHAM—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
2.—WEAR. 464 sq. mi.								
Wolsingham (Dryderdale)	Mrs. Cranston	5	1 3	700	..	30·22	..	..
d Stanhope (Parson Byers Qy.)	Messrs. Dorman Long & Co., Ltd.	5	6 8	846	31·7	31·71	..	..
M Burnhope (Grass Meres)	H. Robinson, Esq., C.E.	5	1 3	1850	59·1	66·80	..	..
M Burnhope (Lodgegill Mine)	H. Robinson, Esq., C.E.	5	1 3	1950	61·4	75·10	..	..
D Burnhope Bridge	H. Robinson, Esq., C.E.	8	1 0	1160	..	54·44	236	185
M Cowshill (Wellheads Hush)	H. Robinson, Esq., C.E.	5	1 6	1690	52·7	65·10	..	..
D Durham (Houghall Hort. Sta.)	County Education Com.	5	1 0	160	27·9	24·83	168	121
D Durham Observatory	F. Sargent, Esq.	8	1 0	336	24·6	26·06	195	129
D Weardale W.W. (Tunstall Res.)	H. Robinson, Esq., C.E.	8	1 2	724	32·4	33·24	204	171
D Ushaw (St. Cuthbert's College)	Rev. J. R. Adamson	5	1 0	594	28·2	28·18	194	139
M Weardale W.W. (Waskerley 6)	H. Robinson, Esq., C.E.	8	4 2	1229	..	30·18	..	..
M Weardale W.W. (Waskerley 3)	H. Robinson, Esq., C.E.	8	4 6	1433	..	34·72	..	..
D Weardale W.W. (Waskerley)	H. Robinson, Esq., C.E.	8	0 11	1179	33·1	32·95	206	155
M Weardale W.W. (Waskerley 1)	H. Robinson, Esq., C.E.	8	4 4	1317	..	30·65	..	..
d Consett (Crookhall)	H. Shackleton, Esq.	5	1 0	642	..	28·81	..	135
D Ryhope Pumping Station	A. B. E. Blackburn, Esq., C.E.	8	1 1	228	25·4	23·05	189	118
Washington School	V. Parkin, Esq.	5	1 2	160	..	22·62	..	..
D Sunderland (W. Hendon H.) No. 5.	Mrs. W. A. Mounsey	5	1 0	130	25·6	24·20	193	121
D Sunderland (Mowbray Pk.)	(+A). Medical Officer of Health	5	1 0	105	25·6	20·36	160	109
3.—TYNE, LOWER. 151 sq. mi.								
D Weardale W.W. (Hisehope Res.)	H. Robinson, Esq., C.E.	5	1 0	1450	..	31·55	224	161
D Weardale W.W. (Smiddy Shaw)	H. Robinson, Esq., C.E.	8	1 3	1128	34·1	29·95	217	160
D Consett Park Farm	T. Hutton, Esq., C.E.	8	0 7	630	..	26·12	183	130
d Rowlands Gill (Chopwellwood)	Forestry Commission	8	1 0	446	28·7	(25·60)	(164)	(122)
D Sunderland (Cleadon Pump. Stn.)	A. B. E. Blackburn, Esq., C.E.	8	1 0	216	24·4	21·24	175	106
D South Shields (Bent's Park)	Dr. W. Campbell Lyons	5	1 0	36	24·2	23·64	202	128
D South Shields (South Pier Wks.)	R. F. Hindmarsh, Esq., C.E.	5	1 0	17	..	19·07	160	105
NORTHUMBERLAND. (Area, 2,015 sq. mi.).								
1.—EDEN. 20 sq. mi.								
2.—SOUTH TYNE. 232 sq. mi.								
d Allenheads	J. W. Metcalfe, Esq.	8	1 0	1350	..	39·85	..	..
3.—TYNE, LOWER. 227 sq. mi.								
D Corbridge (Howden Dene)	T. D. Straker-Smith, Esq.	5	1 0	200	27·3	24·70	183	132
D Newcastle (Leazes Park)	W. J. Steele, Esq.	5	1 0	255	26·4	23·16	158	119
D Newcastle (Deaf & Dumb Inst.)	The Superintendent	5	1 8	201	27·2	20·76	171	111
D Hexham (Causey Hill)	R. W. Gregory, Esq.	5	1 2	430	..	25·45	190	131
d Hexham (Beaufront Castle)	The Lady Rayleigh	8	1 0	450	27·6	24·71	..	..
d Wallsend (Carville School)	G. R. Pattison, Esq.	5	1 3	100	..	21·73	..	..
D Tynemouth (Tyne Pier Works)	R. F. Hindmarsh, Esq., C.E.	5	1 0	54	25·1	21·17	177	115
D Tynemouth (C.G. Sta.) *new g.*	The Meteorological Office	8	1 0	67	26·1	22·74	202	117
D Whittle Dene Filters (N'stle W.W.)	A. Hardcastle, Esq., C.E.	5	1 1	353	26·6	26·45	210	130
D Whittle Dene Res. (Newc. W.W.)	A. Hardcastle, Esq., C.E.	5	0 6	380	25·3	26·55	199	124
4.—NORTH TYNE. 433 sq. mi.								
Ryal Cottage (Newcastle W.W.)	A. Hardcastle, Esq., C.E.	10	0 9	463	29·1	25·37	..	..
Hallington Vill. (N'castle W.W.)	A. Hardcastle, Esq., C.E.	5	1 0	467	29·9	26·90	..	..
D Hallington Res. (N'castle W.W.)	A. Hardcastle, Esq., C.E.	5	1 0	470	29·3	26·43	187	140
Hallington (Fawcett) (Newc. W.W.)	A. Hardcastle, Esq., C.E.	5	1 2	537	28·2	27·36	..	..
Hallington (Cheviott) (Newc. W.W.)	A. Hardcastle, Esq., C.E.	5	1 2	576	27·8	25·85	..	..
Camphill (Newcastle W.W.)	A. Hardcastle, Esq., C.E.	5	1 0	650	29·4	30·62	..	..
D Colt Crag Res. (N'castle W.W.)	A. Hardcastle, Esq., C.E.	5	1 0	654	..	29·77	183	148
Green Crag (Newcastle W.W.)	A. Hardcastle, Esq., C.E.	5	1 0	900	30·4	31·39	..	..
D Falstone Rectory	Rev. A. J. Dexter	5	1 0	485	38·6	37·51	203	153
D Bellingham (Highgreen)	Sir C. Morrison-Bell, Bt.	5	1 0	849	35·4	32·48	200	153
D Redewater (Catcleugh)	A. Hardcastle, Esq., C.E.	5	1 0	819	40·2	42·68	250	170
5.—COQUET & C. 840 sq. mi.								
Whittington (Newcastle W.W.)	A. Hardcastle, Esq., C.E.	8	0 9	528	28·1	25·48	..	..
Burnside (Newcastle W.W.)	A. Hardcastle, Esq., C.E.	5	0 9	419	27·2	25·36	..	..
d Kirkwhelpington	J. R. Wardle, Esq.	5	1 3	581	..	(29·38)	(178)	(134)
D Morpeth (High Stanners)	R. Matheson, Esq., Jnr.	8	1 0	90	..	23·53	187	123
D Ashington (Bothal School)	J. Gray, Esq.	5	8 0	110	25·3	21·79	187	116

DIVISION X—NORTHERN COUNTIES—(*con.*).

	STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1932. Rainfall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
	NORTHUMBERLAND—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
	5.—COQUET & C.—(*con.*).								
D	Morpeth (Cockle Park)	Northumberland Co. Council	8	1 0	325	29·3	24·23	195	130
D	Font Res. (Tynemouth W.W.)	J. W. McKerrow, Esq.	10	1 2	620	31·1	30·73	224	151
W	Long Framlington (Embleton H.)	J. C. Fenwick, Esq.	5	0 9	430	30·3	27·54	..	..
d	Acklington (Broomhill Colliery)	A. M. Morison, Esq.	5	1 0	92	24·9	25·11	..	..
D	Rothbury (Heatherlea)	J. H. Holmes, Esq., C.E.	5	1 0	460	..	26·32	186	133
D	Callaly Castle Gardens	E. J. Farmer, Esq.	5	1 0	300	..	26·92	162	136
D	Alnmouth (Nether Grange)	Miss E. Pease, J.P., O.B.E.	5	1 6	40	26·2	24·03	167	130
D	Chathill (Preston Tower)	G. G. Baker Cresswell, Esq.	8	1 0	140	28·3	25·28	167	119
D	Belford (Newlands)	C. H. Sanderson, Esq.	5	3 10	130	..	22·49	180	125
	6.—TWEED. 262 sq. mi.								
D	Glanton Pyke Gardens	Col. C. G. Collingwood, C.B.	8	4 2	521	29·4	26·18	183	139
D	Wooperton	Mrs. Burdon	6	1 6	..	30·0	28·90	172	147
D	Ilderton (Lilburn Tower Gdns.)	Mr. W. Lovett	5	1 0	250	30·4	28·82	201	146
d	Wooler (Victoria House)	Miss E. M. Dodds	5	1 0	176	26·8	26·00	..	..
	Mindrum (Thornington House)	Leonard Briggs, Esq.	5	..	..	28·6	26·42	..	..
D	Berwick-on-Tweed (Ramparts)	S. Hill, Esq.	5	1 0	76	23·4	21·23	173	108
	7.—INSULAR. 1 sq. mi.								
	CUMBERLAND. (Area, 1,516 sq. mi.)								
	1.—EDEN & SOLWAY. 887 sq. mi.								
D	Ullswater (Hallsteads)	Mrs. F. Thomasson	5	1 0	497	54·7	60·30	209	163
D	Watermillock (Gatesgarth)	Mrs. Spring-Rice	5	1 3	874	..	58·00	214	166
D	Penrith (Hutton John)	F. Huddleston, Esq., C.E.	5	1 0	688	45·1	54·26	212	157
D	Penrith (Laurel Bank)	A. B. Sinclair, Esq.	5	1 0	480	36·4	38·29	210	150
D	Penrith (Newton Rigg)	Cumberland County Council	8	1 0	560	36·4	37·64	216	156
d	Uldale (Chapel House Res.)	J. R. Watters, Esq.	8	1 0	620	46·2	47·22	..	..
	Penrith (Nunwick Hall)	R.HeywoodThompson,Esq.	5	1 0	268	31·8	35·40	204	154
D	Penrith (Ennim)	Lt.Col.H.L.Riley,DSO,OBE.	5	1 0	660	39·6	46·07	194	155
d	Caldbeck (Wellbank)	Miss R. A. S. Streetfield	5	1 7	800	..	75·24	(198)	(173)
M	Allonby	W. H. Williamson, Esq.,J.P.	5	1 0	25	..	32·03	..	..
D	Renwick (Ravenwood)	W. Salkeld, Esq.	5	1 0	750	40·0	45·63	220	197
D	Ainstable (Heather Glen)	A. Guthrie-Smith, Esq.	5	1 6	500	34·3	36·72	208	170
D	Wigton (Brookfield)	David W. Reed, Esq., B.Sc.	5	1 0	124	36·7	41·05	174	149
D	Wreay Vicarage	Rev. Canon A. R. Hall	5	1 0	310	31·5	32·25	201	144
D	Silloth	Miss A. P. Farries	5	1 0	27	..	38·41	185	145
D	Geltsdale	P. Dalton, Esq., C.E.	5	1 2	778	36·8	37·81	205	162
D	Carlisle (Spital Cemetery)	L. C. Collett, Esq.	8	1 0	114	31·8	33·88	188	140
	Carlisle (Denton Holme)	W. Eggleston, Esq.	5	1 0	57	..	34·22	..	..
D	Carlisle (Rose Hill)	Henry Lonsdale, Esq.	8	1 1	105	..	36·60	186	137
D	Carlisle (Scaleby Hall)	Lady Allison	5	1 0	111	33·7	36·93	192	144
	2.—DERWENT. 257 sq. mi.								
M	Sprinkling Tarn	T. Bainbridge, for M.O.	5	1 6	1985	131·8	(184·45)	..	..
M	Styehead Tarn	T. Bainbridge, for M.O.	5	1 6	1472	129·6	(185·00)	..	..
M	Stye Head B, *new g.*	T. Bainbridge, for M.O.	5	1 6	1070	181·0	179·60	..	..
M	Stye Head A. *new g.*	T. Bainbridge, for M.O.	5	1 0	1100	..	(178·70)	..	..
M	Borrowdale (Stockley Bridge)	T. Bainbridge, for M.O.	5	1 0	585	..	(161·00)	..	..
	Borrowdale (Seathwaite) garden	T. Bainbridge, for M.O.	5	1 6	423	..	147·64	..	..
	Borrowdale (Seathwaite) field	Miss C. Marshall	5	1 0	423	125·3	138·95	..	..
M§	Ullscarf	Manchester Corpn. W.W.	5	1 0	2100	..	142·21	..	..
M‖	Helvellyn (Birkside)	Manchester Corpn. W.W.	5	1 0	1900	..	110·31	..	..
M	Wythburn	Manchester Corpn. W.W.	5	1 0	610	99·6	113·69	..	..
M	Helvellyn (Brown Rigg) *new g.*	Manchester Corpn. W.W.	5	1 0	1450	..	137·79	..	..
D	Borrowdale (The Moraine)	G. Scott, Esq.	5	1 0	330	97·5	118·10	207	178
M	Helvellyn (Brown Cove)	Manchester Corpn. W.W.	5	1 0	2250	..	106·91	..	..
D	Watendlath Farm	W. Tyson, Esq., for M.O.	5	1 0	800	..	100·99	177	162
M§	Armboth Fells (The Pewitts)	Manchester Corpn. W.W.	5	1 0	1650	..	124·08	..	..
M§	Helvellyn (Whiteside), *new g.*	Manchester Corpn. W.W.	5	1 0	2100	..	102·09	..	..
D	Buttermere (Hassness)	E. Dixon, Esq.	6	1 0	350	105·9	118·01	209	181
M	Crummock Water(Lanthwaite Grn.)	R. W. Hall, Esq.	5	1 0	510	64·9	79·04	..	..
§	Thirlmere (Dale Head Hall), *new g.*	Manchester Corpn. W.W.	6	1 0	620	..	99·29	..	..

§ Gauge surrounded by a turf wall in December, 1931.
‖ Gauge removed to site selected after inspection and surrounded by a turf wall.

DIVISION X—NORTHERN COUNTIES—(*con.*).

	STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1932. Rainfall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
	CUMBERLAND—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
	2.—DERWENT—(*con.*).								
D	Cockermouth (Loweswater)	Miss S. H. Frith	5	1 0	353	..	71·39	213	164
D	Keswick (Lingholm Gardens)	J. Elson, Esq.	5	1 0	300	65·7	79·36	204	160
D	Keswick (Derwent Island) *old g.*	C. E. Marshall, Esq.*	5	0 9	280	56·3	71·17	204	160
D	Keswick (Derwent Island) *new g.*	C. E. Marshall, Esq.*	5	1 0	290	57·0	67·01	204	158
D	Keswick (High Hill)	Tom. Wilson, Esq.	5	1 0	254	54·9	62·59	180	150
D	Portinscale (High Moss)	Mrs. J. E. Brown	5	1 0	285	61·9	70·02	205	162
D	Lorton (Kirkfell House)	R. Wigham, Esq.	5	0 5	403	..	50·11	205	152
D	Keswick (Mirehouse)	Miss Spedding	5	1 6	280	49·8	57·66	200	160
D	Workington (Stainburn Res.)	The Borough Surveyor	5	1 0	180	36·9	42·88	197	169
D	Threlkeld (Blencathra Sanat.)	Medical Superintendent	5	1 0	885	61·5	68·52	198	183
M	Cockermouth (Castlegate Drive)	R. W. Hall, Esq.	5	1 0	268	..	41·86	..	..
	Camerton Vicarage	Rev. E. C. Bennett	5	1 0	200	36·2	39·76	..	..
D	Bassenthwaite (Higham)	G. F. Fisher, Esq.	5	0 9	500	44·9	48·96	214	148
	3.—WEST COAST STREAMS. 235 sq. mi.								
D	Ravenglass (The Grove)	Walter Marchant, Esq.	5	1 0	70	42·5	48·94	185	156
D	Eskdale Green (Gatehouse)	Mr. E. Hayes	5	1 0	250	..	62·94	209	171
D	Beckfoot (Eskdale Vicarage)	Mrs. F. K. Berry	5	1 0	169	..	68·71	197	173
	Braystones	H. H. Watson, Esq.	10	3 6	36	37·5	45·97	..	..
M	Egremont (Lank Rigg)	The late J. Sherwen, Esq.	5	1 0	1750	..	76·20	..	..
	St. Bees (Eaglesfield)	S. T. Aston, Esq.	5	1 0	50	..	42·38	..	..
D	St. Bees (Fern Bank)	Lt.-Col. G. Dixon	5	1 0	60	42·7	44·32	202	151
D	Whitehaven (Stanley Pond)	WhitehavenCollieryCo.,Ltd.	12	2 11	45	47·5	48·67	174	147
D	Whitehaven (Scragill Reservoir)	A. Wilson, Esq., C.E.	8	1 0	188	43·5	52·02	202	148
	4.—DUDDON & C. 50 sq. mi.								
	5.—SOUTH TYNE. 87 sq. mi.								
D	Alston Vicarage	Rev. N. A. Walton	5	1 0	940	..	50·44	200	164
	WESTMORLAND. (Area, 783 sq. mi.)								
	1.—EDEN. 373 sq. mi.								
D	Kirkby Stephen (Eden Place)	Mrs. Paul Mason	5	1 0	544	42·3	38·69	207	157
	Wasdale Pike	Manchester Corpn. W.W.	5	1 0	1825	..	88·26	..	..
	Mosedale (Mosedale Cottage)	Manchester Corpn. W.W.	5	1 0	1443	87·8	111·02	..	..
	Wet Sleddale (Mirethwaite)	Manchester Corpn. W.W.	5	1 0	990	64·7	75·11	..	..
	Blea Water	Manchester Corpn. W.W.	5	1 0	1465	..	119·72	..	..
M	Blea Water B.	Manchester Corpn. W.W.	5	1 0	1420	..	(121·90)	..	..
	Mardale (Grove Brae)	Manchester Corpn. W.W.	5	1 0	802	..	94·43	..	..
	Shap (Birkbeck Fell)	Manchester Corpn. W.W.	5	1 0	935	56·0	67·56	..	..
	Swindale Parsonage	Manchester Corpn. W.W.	5	1 0	875	..	89·25	..	..
	Grisedale (Ruthwaite Lodge)	M. Marshall, Esq.*	8	1 6	1250	97·7	125·31	..	..
	Mardale (Low Raise)	Manchester Corpn. W.W.	5	1 0	2465	..	105·49	..	..
	Shap (Thornship Gill)	Manchester Corpn. W.W.	5	1 0	865	51·4	70·60	..	..
	Shap (Tailbert Head)	Manchester Corpn. W.W.	5	1 0	1100	55·6	67·23	..	..
	Hawes Water (Boulderstone Nib)	Manchester Corpn. W.W.	8	1 0	744	..	94·98	..	..
M	Hawes Water (Naddle Head)	Manchester Corpn. W.W.	5	1 0	1150	..	78·13	..	..
M	Hawes Water (Wallow Crag)	Manchester Corpn. W.W.	5	1 0	1250	..	85·68	..	..
M	Hawes Water (Naddle House)	Manchester Corpn. W.W.	5	1 0	825	60·5	78·58	..	..
	Hawes Water (Measand)	Manchester Corpn. W.W.	5	1 0	824	69·6	85·67	..	..
	Measand Beck (Keasgill)	Manchester Corpn. W.W.	5	1 0	1862	..	95·17	..	..
M	Hawes Water (Thornthwaite Pk.)	Manchester Corpn. W.W.	5	1 0	650	..	73·69	..	..
M	Hawes Water (Burn Banks)	Manchester Corpn. W.W.	5	1 0	900	..	86·11	..	..
D	Patterdale Hall	M. Marshall, Esq.*	5	1 3	490	86·4	102·52	207	179
d	Patterdale (Greenside Mine)	Matthew Place, Esq.	7	1 6	1005	91·9	112·50	..	..
	Bampton (Low Kop)	Manchester Corpn. W.W.	5	1 0	1876	..	62·42	..	..
M	Bampton (Low Kop) B.	Manchester Corpn. W.W.	5	1 0	1750	..	(81·38)	..	..
	Bampton (Walmhow)	Manchester Corpn. W.W.	5	1 0	615	46·5	67·64	..	..
	Bampton (Stanegarth)	Manchester Corpn. W.W.	5	1 0	913	59·5	69·85	..	..
M	Cawdale Beck (Howe Grain)	Manchester Corpn. W.W.	5	1 0	1642	..	83·78	..	..
	Heltondale (Kidmoor)	Manchester Corpn. W.W.	5	1 0	984	..	62·56	..	..
D	Appleby (Castle Bank)	Lady Holmes	5	1 0	440	35·0	41·37	237	171
	Ullswater (Sharrow Bay)	Mr. G. Robinson	5	1 0	600	45·8	53·29	..	..

* *Per* Miss Cordelia Marshall.

DIVISION X—NORTHERN COUNTIES—(*con.*).

	STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1932. Rainfall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
	WESTMORLAND—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*			
	1.—EDEN—(*con.*).								
D	Morland	F. R. Markham, Esq.	5	1 0	455	35·6	42·46	189	156
	Morland Hall	W. G. Shorrock, Esq.	5	1 0	475	..	39·19	..	..
D	Penrith (Lowther Castle)	Mr. J. Jeffrey	5	1 0	760	..	49·66	208	156
D	Cliburn (Council School)	L. S. Chapman, Esq.	5	1 0	420	..	40·01	173	130
D	Penrith (Barton House)	Mrs. Legh Tolson	5	1 0	500	42·4	43·33	206	153
D	Temple Sowerby (The Grange)	Col. E. B. Burton	5	1 1	370	30·7	34·99	203	144
	2.—LEVEN. 60 sq. mi.								
D	Bowness (Dawstone)	W. H. Milne, Esq.	5	1 2	550	..	68·98	216	172
d	Windermere (Nurseries)	The Lakeland Nurseries, Ltd.	5	1 5	350	..	71·46	..	..
d	Windermere (St. Rule)	Miss E. M. Bullock	5	1 0	350	..	(67·92)	(177)	(157)
D	Windermere (Hammar Bank)	Mrs. H. Coutts	5	1 0	200	61·4	70·90	213	163
D	Windermere (Holehird)	H. L. Groves, Esq.	5	1 0	483	68·0	76·73	247	181
D	Windermere (Brockhole)	W. Gaddum, Esq.	5	1 6	175	66·3	70·94	209	168
D	Ambleside (Wansfell)	Miss Wrigley	8	1 0	150	71·9	78·91	205	174
M	Little Langdale (Fell Foot)	Miss C. Marshall	5	2 2	380	108·2	115·44	..	..
D	Ambleside (White Craggs)	C. H. Hough, Esq.	5	1 7	200	72·1	82·94	190	168
D	Ambleside (King's School)	The Headmaster	5	4 0	300	..	69·49	180	165
D	Ambleside (U.D.C.)	The Surveyor	5	1 0	145	..	81·51	197	160
D	Ambleside (Market Square)	G. A. Johnston, Esq., M.D.	5	1 0	180	75·1	84·39	226	174
	Elterwater (Eltermere)	Miss C. Marshall	5	1 0	205	89·6	104·10	212	..
D	Rydal (The Stepping Stones)	Gordon G. Wordsworth, Esq.	5	1 3	190	80·6	93·08	222	185
D	Rydal (High Close)	F. E. T. Jones Balme, Esq.	8	0 9	553	83·3	93·40	220	177
D	Rydal (The Hall)	R. E. Porter, Esq.	5	1 0	354	82·1	94·72	229	182
D	New Dungeon Ghyll Hotel	Miss C. Marshall	5	1 1	310	110·2	117·76	186	173
	Mickleden	Miss C. Marshall	5	1 6	490	130·8	134·36	..	..
D	Grasmere (The Wray)	Miss G. M. Simpson	5	1 0	221	88·5	103·29	232	186
	3.—KENT. 188 sq. mi.								
D	Burton (Under Fell)	J. B. Hoyle, Esq.	5	0 9	225	42·3	45·34	201	155
D	Heversham (Plumtree Hall)	Miss M. C. Watson	5	0 8	115	45·7	50·79	207	149
D	Levens (Beathwaite)	Robert Bush, Esq.	5	1 0	105	..	52·44	199	154
D	Endmoor (Whinyeats)	H. Corder, Esq.	5	0 8	325	..	53·65	204	158
D	Killington Reservoir	L. M. & S. Railway	8	3 4	674	..	50·90	190	164
	Underbarrow (Broad Oak)	Col. J. A. Jackson	5	1 0	100	..	58·93	207	..
D	Kendal Gasworks	Kendal Gas & Water Co.	5	1 11	140	..	52·08	187	150
D	Kendal (Southfield)	J. W. Braithwaite, Esq.	8	1 0	150	..	56·86	217	158
D	Kendal (Highgate)	R. Rhodes, Esq.	5	1 3	176	50·6	49·19	202	154
d	Kendal (Greenside)	Miss C. E. Wilson	5	1 0	380	53·0	(62·11)	(198)	(159)
D	Kendal (Fisher Tarn Res.) *new g.,new site.*	Kendal Gas & Water Co.	5	1 0	742	..	56·35	213	167
	Kendal (Ellergreen)	J. W. Cropper, Esq.	5	1 6	270	58·2	65·04	..	..
D	Kendal (Burneside)	W. E. Brown, Esq.	5	0 10	165	53·2	62·64	205	161
D	Kendal (Kent Lea)	R. J. Cragghill, Esq.	5	1 0	165	..	58·33	208	164
D	Kendal (Skelsmergh)	F. G. Linnell, Esq.	5	1 0	450	..	63·90	220	165
D	Kendal (Potter Fell)	J. Cropper & Co., Ltd.	5	2 0	750	70·6	103·21	191	152
	Troutbeck (Dubbs Reservoir)	J. Lupton, Esq.	5	1 3	745	..	76·34	..	..
D	Kentmere Head Reservoir	Kendal Res. Commissioners.	5	1 6	920	..	108·93	215	194
	4.—LUNE. 122 sq. mi.								
D	Kirkby Lonsdale (Stoop Lane)	Mrs. H. E. Hollins	5	1 8	210	..	49·55	199	159
	Kirkby Lonsdale	J. R. Picard, Esq.	7	1 0	215	46·1	48·10	..	..
D	Barbon Manor	Lord Shuttleworth	5	1 3	650	..	49·38	209	181
D	Barbon (The Stores)	The Late W. Wilkinson, Esq.	5	1 0	310	46·6	47·49	180	153
	Ravenstonedale (Railway Station)	J. T. Sanderson, Esq.	5	1 0	800	..	(47·92)	..	..
	5.—TEES. 40 sq. mi.								
M	Lunedale (Conny Pot)	G. R. Collinson, Esq., C.E.	5	1 0	1840	53·7	58·90	..	..

DIVISION XI—MONMOUTH, WALES, AND THE ISLANDS.

MONMOUTH. (Area, 534 sq. mi.)

	1.—RHYMNEY. 39 sq. mi.								
d	Rumney (Witla Court)	Mr. E. Edwards	5	1 0	175	39·4	40·23	..	..
D	St. Mellons (Druidstone)	Mr. G. H. Shoebridge	5	1 0	240	..	42·08	175	133
d	Machen (Machen Quarry)	Machen Stone and Lime Co.	5	1 1	250	..	47·36	(187)	(150)

DIVISION XI—MONMOUTH, WALES, AND THE ISLANDS—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Rain-gauge: Average Rainfall.	1932. Rainfall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
MONMOUTH—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
2.—EBBW. 88 sq. mi.								
D Rogerstone (Newport Golf Links)	Col. Blethyn T. Rees, C.E.	5	0 8	304	..	47·54	188	148
D Blackwood	D. H. Price, Esq.	5	0 10	630	..	50·47	192	145
D Abertillery (The Park)	S. E. Thomas, Esq.	5	1 0	700	57·2	63·97	205	170
d Tredegar Laboratory	Tredegar Iron & Coal Co. Ltd.	5	2 0	950	59·8	64·31	..	..
D Ebbw Vale (Iron Works)	Ebbw Vale Steel & Iron Co., Ltd.	8	1 0	902	56·6	60·93	190	157
3.—USK & C. 290 sq. mi.								
D Redwick	Col. Blethyn T. Rees, C.E.	5	1 3	24	..	35·34	165	126
D Portskewett (Sudbrook)	S. W. Moore, Esq., C.E.	8	1 0	51	..	32·77	169	133
D Newport (Stow Park)	A. W. Jupp, Esq., C.E.	5	1 0	200	..	43·94	186	139
D Newport (Alltyryn Hosp.)	Medical Officer of Health	8	1 0	265	..	45·68	183	134
D Newport W.W. (Friar St. Yard)	Newport Corporation	5	6 0	32	..	42·11	177	133
D Newport W.W. (Ynis-y-fro Res.)	Newport Corporation	5	1 0	130	..	45·77	199	143
D Caerleon (The Croft)	Col. Blethyn T. Rees, C.E.	5	1 0	51	..	41·95	208	135
D Newport W.W. (Pant-yr-eos Res.)	Newport Corporation	5	1 0	485	..	48·97	196	143
D Newport W.W. (Llanvaches)	Newport Corporation	5	0 10	456	..	42·44	181	137
D Newport W.W. (Nantypridd)	Newport Corporation	5	1 0	500	..	45·07	187	142
D Chepstow (Itton Court)	Lady Curre	5	1 0	390	..	42·08	184	141
D Newport W.W. (Newchurch)	Newport Corporation	5	1 0	550	..	46·09	187	143
D Usk (Monmouth Agric. Instn.)	The Principal	5	1 0	70	..	41·57	176	135
D Abersychan (Glansychan)	G. W. James, Esq.	5	1 2	699	55·0	61·32	221	160
D Goytre (Goytre Hall)	Mrs. Lionel Whitehead, O.B.E.	5	1 0	300	46·1	50·92	175	143
D Blaenavon (Estate Office)	E. J. John, Esq.	8	1 0	1144	55·1	68·59	193	174
D Abergavenny (Plas Derwen)	Alan Whitehead, Esq.	5	1 3	200	..	47·95	197	144
D Abergavenny (Ty Clyd)	F. D. Llewelyn, Esq.	5	1 0	272	45·1	49·80	176	146
D Abergavenny (Richmond Road)	W. H. Edmunds, Esq.	8	1 0	256	40·6	44·03	164	135
D Abergavenny (Larchfield)	Dr. N. R. Phillips	5	1 0	240	37·5	42·41	172	137
D Abergavenny (The Chain)	Miss Baker-Gabb	5	1 0	310	..	44·25	181	141
D Grwyne Fawr (Coed Dias)	Miss Baker-Gabb	5	1 0	900	..	45·25	212	158
4.—WYE. 117 sq. mi.								
D Monmouth (Cornwall House)	P. G. Harvey, Esq., M.D.	5	0 11	55	..	32·10	174	125
D Trewyn	Mr. R. F. Duncombe	5	0 10	500	..	42·55	176	150
GLAMORGAN. (Area, 808 sq. mi.)								
1.—LOUGHOR. 55 sq. mi.								
D Gorseinon (Penllergaer)	Sir C. Venables Llewelyn, Bt.	5	3 6	240	48·7	49·40	199	154
D Felindre (Blaenant Dhu)	Lt.-Col. F. Hibbert, C.E.	5	1 3	346	..	59·86	211	170
D Felindre (Lower Lliw Res.)	Lt.-Col. F. Hibbert, C.E.	8	1 3	426	..	55·09	212	165
D Felindre (Upper Lliw Res.)	Lt.-Col. F. Hibbert, C.E.	8	1 3	599	..	64·81	216	172
2.—GOWER PENINSULA. 62 sq. mi.								
D Gower (Penrice Castle)	Mr. George Miller	5	1 6	18	..	44·04	191	148
d Penmaen (Cefn Mor)	Mrs. R. A. Bostock	5	1 6	300	41·5	38·22	..	145
D Clyne Castle	Admi. A. Walker-Heneage-Vivian	5	1 0	100	..	45·37	185	153
D Sketty (Rhydyrhelyg)	E. H. Perkins, Esq.	5	1 0	124	46·0	49·64	202	154
3.—TAWE. 47 sq. mi.								
D Swansea (Victoria Park)....(+A)	D. Bliss, Esq.	8	1 0	27	44·7	47·96	214	153
D Clydach (Wernfadog)	W. J. P. Player, Esq.	8	1 0	..	..	57·78	208	173
D Ystalyfera (Wern House)	Miss L. Williams	5	1 6	240	64·8	71·59	195	167
4.—NEATH. 82 sq. mi.								
D Briton Ferry (Brynsiriol)	H. A. Clarke, Esq., C.E.	5	1 0	33	..	49·02	176	150
D Briton Ferry (Cefn Court)	H. A. Clarke, Esq., C.E.	5	1 0	503	47·7	51·60	181	160
D Neath (Cimla Reservoir)	H. A. Clarke, Esq., C.E.	5	1 0	360	..	53·75	187	161

DIVISION XI—MONMOUTH, WALES, AND THE ISLANDS—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Rain-gauge: Average Rainfall.	1932. Rainfall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
GLAMORGAN—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
4.—NEATH—(*con.*).								
D Neath (Gnoll Reservoir)	H. A. Clarke, Esq., C.E.	5	1 0	204	52·1	54·30	187	158
D Neath (Farm School)	A. L. Brackey, Esq	5	1 0	200	..	50·22	187	152
D Neath (Bryn-Teg)	H. P. Lloyd, Esq.	5	0 9	100	..	54·90	202	164
D Neath (Glynfelin)	T. Gibbins, Esq.	5	1 4	180	..	59·45	171	161
D Rhondda W.W.(Llyn Fawr Res.) (*old*)	J. B. Hughes, Esq.	8	1 0	1220	88·6	98·28	209	174
D Rhondda W.W.(Llyn Fawr Res.) *new g*	J. B. Hughes, Esq.	5	1 0	1220	..	99·39	209	175
Pontardawe (Plas Cilybebyll)	J. H. P. Lloyd, Esq.	5	1 3	500	..	68·34	..	..
5.—OGMORE & C. 350 sq. mi.								
D Barry (Porth-y-Castell)	E. Sawyer, Esq.	5	1 0	150	..	34·38	170	131
Barry W.W. (Merthyr Dyfan R.)	T. E. Franklin, Esq., C.E.	5	1 0	300	37·6	35·94	..	..
Lower Penarth	E. I. Evans, Esq., C.E.	5	1 0	66	34·9	34·02	154	117
Penarth Cemetery	E. I. Evans, Esq., C.E.	5	1 4	99	..	37·38	160	131
Penarth (Council Offices)	E. I. Evans, Esq., C.E.	5	5 0	160	37·1	36·57	157	122
D Dunraven Castle	J. P. Maitland, Esq.	5	1 0	80	..	37·71	169	136
D Cardiff (Cogan Pumping Statn.)	N. J. Peters, Esq., C.E.	5	1 0	117	37·7	40·51	164	128
D Cardiff (Ely Pumping Station)	N. J. Peters, Esq., C.E.	5	1 0	53	42·1	38·85	221	137
D Fairwater (Glan Ely Hosp.)	Medical Superintendent	5	1 0	122	..	49·42	175	141
Barry W.W. (Pencoedtre Res.)	T. E. Franklin, Esq., C.E.	5	1 0	200	..	32·51	..	..
D Cardiff (St. Fagans Castle)	Capt. H. A. Pettigrew	5	1 0	100	48·5	46·44	178	151
D Cowbridge (Pentre Meyrick)	F. E. P. Dunn, Esq.	5	1 0	300	..	43·71	194	145
D Merthyr Mawr	Col. J. I. D. Nicholl	5	1 6	75	42·9	46·03	235	180
D Bridgend (Eiw Graig)	H. J. Randall, Esq.	8	1 6	50	..	43·59	198	153
D Bridgend (Waterworks)	E. W. Davies, Esq.	5	1 0	140	..	43·70	166	139
d Pencoed (Senior School)	G. H. Cornish, Esq.	5	1 3	200	..	44·44	..	..
Pencoed (Brynna)	E. W. Davies, Esq.	12	2 6	172	..	50·12	..	..
D Pencoed (Heol-y-Cyw Sch.)	W. Morgan-Richards, Esq.	5	1 0	330	..	48·95	164	143
D Port Talbot (Twyn-yr-hydd)	E. N. David, Esq.	5	1 3	180	42·6	39·66	187	141
D Port Talbot (Groeswen Ganol)	A. Bishop, Esq.	8	1 0	51	40·3	39·31	188	143
d Maesteg (Isolation Hospital)	G. E. Howells, Esq.	8	0 10	700	..	62·66	..	172
Pontycymmer	E. W. Davies, Esq.	8	1 0	560	..	80·54	..	..
D Pontycymmer (Garw Sec. Sch.)	J. J. Morgan, Esq.,	5	1 0	600	..	74·21	193	163
D Ogmore Vale	E. W. Davies, Esq.	8	0 6	600	..	80·38	189	159
6.—TAFF. 157 sq. mi.								
D Cardiff (Trade Street Depot)	N. J. Peters, Esq., C.E.	5	1 0	45	39·5	41·38	179	129
D Llandaff (West Hill)	J. E. Gladstone, Esq.	5	1 0	110	42·2	45·06	200	151
D Rhubina Reservoir	N. J. Peters, Esq., C.E.	5	1 0	336	48·1	50·78	187	147
D Pontypridd (Treforest Central Sch.)	The Headmaster	5	1 0	350	..	66·21	196	163
D Pontypridd (Lan Wood R.) *new s.*	H. E. Maltby, Esq., C.E.	5	1 6	300	..	62·63	190	156
d Pontypridd (Llanfabon)	H. E. Maltby, Esq., C.E.	5	2 3	600	..	63·64	..	..
D Ystradyfodwg (Tyntyla Hos.)	J. D. Jenkins, Esq., M.D.	5	1 0	590	60·1	58·15	186	176
D Treharris Service Reservoir	A. J. Marshall, Esq., C.E.	5	1 3	765	52·3	60·11	183	158
D Mountain Ash (Darranlas Res.)	W. G. Thomas, Esq., C.E.	5	0 11	540	63·0	68·73	201	163
D Mountain Ash (Maesydderwen)	W. N. Morgan, Esq.	5	1 0	483	56·6	61·13	198	150
D Treherbert (Tyn-y-waun) *old g*	O. Thomas, Esq.	5	1 0	801	87·0	96·81	210	177
D‖Treherbert (Tyn-y-waun) *new g*	O. Thomas, Esq.	5	1 0	801	..	95·82	210	178
d Cwmaman Colliery	The Agent	5	1 0	711	..	75·42	..	..
D Rhondda (Castell Nos. Res.) *new g.*	H. E. Maltby, Esq., C.E.	5	1 6	1060	..	89·19	198	165
D Rhondda (Lluest Wen Res.)	H. E. Maltby, Esq., C.E.	5	1 6	1280	89·0	96·39	198	176
D Merthyr Tydfil (Penybryn Filters)	A. J. Marshall, Esq., C.E.	5	1 3	937	54·0	62·82	224	175
D Dowlais (Gwernllwyn)	C. C. Blower, Esq.	5	1 6	1071	51·4	56·19	189	156
D Dowlais (Garth Filter Beds)	A. C. Quiningborough, Esq.	5	1 0	1245	..	62·28	215	167
7.—RHYMNEY. 55 sq. mi.								
D Cardiff (Roath Park)	A. A. Pettigrew, Esq.	5	0 11	49	41·6	42·63	185	142
D Cardiff (Penylan) (+A)	Medical Officer of Health	5	1 0	202	41·4	42·52	175	133
D Cardiff (Heath Filters)	N. J. Peters, Esq., C.E.	5	1 0	132	41·3	43·85	187	136
D Llanishen Reservoir	N. J. Peters, Esq., C.E.	5	1 0	155	39·4	41·07	180	133
D Lisvane Reservoir	N. J. Peters, Esq., C.E.	5	1 0	150	37·4	38·11	178	125
D Rhymney Bridge Reservoir	E. Watkin Edwards, Esq., C.E.	8	0 6	1150	56·8	68·74	207	179

‖ Turf wall round gauge.

DIVISION XI—MONMOUTH, WALES, AND THE ISLANDS—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1932. Rainfall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
CARMARTHEN. (Area, 918 sq. mi.)		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
1.—TEIFI. 87 sq. mi.								
2.—TOWY & C. 715 sq. mi.								
D Carmarthen (The Friary)	Dr. L. M. Bowen-Jones	5	1 5	62	48·3	49·46	193	160
D Carmarthen (Model & Prac. Sch.)	C. W. Wilford, Esq.	5	1 5	65	..	51·37	191	161
D Llandilo (Dynevor Castle)	Lord Dynevor	8	1 4	202	53·2	55·56	227	172
D Llandilo (Bryneithen)	H. L. Puxley, Esq.	5	1 0	400	49·8	55·98	204	171
w Llyn-y-fan Fach (Waen Sychlwch)	Llanelly W.W.	5	1 0	1647	83·2	116·59	..	..
D Llyn-y-fan Fach (Nant Coch)	Llanelly W.W.	5	1 0	1172	74·5	86·04	187	179
w Llyn-y-fan Fach (Bua'r Llyn)	Llanelly W.W.	5	1 0	1650	..	111·77	..	..
D Llyn-y-fan Fach (Troed-y-Foel)	Llanelly W.W.	5	1 0	867	..	73·01	187	170
D Llanddeusant (Pontcrynfe)	J. Thomas, Esq.	5	1 0	323	55·6	62·67	204	166
D Abergorlech	S. L. Davies, Esq.	5	1 0	250	..	61·06	197	174
D Llandovery (Nantyrhogfaen)	D. T. M. Jones, Esq.	5	1 0	249	50·8	60·70	200	168
3.—LOUGHOR & C. 104 sq. mi.								
D Llanelly (Old Market Yard)	Borough Surveyor	5	12 0	35	44·6	46·07	193	153
D Llanelly (Filter Beds)	Borough Surveyor	5	1 0	237	45·1	52·26	200	162
D Llanelly (Cwmlliedi W.W.) *new g.*	Borough Surveyor	5	1 1	240	..	52·37	209	158
D Llanelly (Upper Lliedi Res.) *new g.*	Borough Surveyor	5	0 11	290	..	54·52	208	166
w Llannon Res.	Llanelly W.W.	5	1 0	860	..	64·46	..	..
4.—TAWE. 7 sq. mi.								
5. USK. 5 sq. mi.								
6.—WYE.								
PEMBROKE. (Area, 617 sq. mi.)								
1.—TEIFI. 37 sq. mi.								
2.—NEVERN & C. 91 sq. mi.								
3.—WEST COAST STREAMS. 82 sq. mi.								
4.—CLEDDAU & C. 407 sq. mi.								
d Pembroke (Stackpole Court)	Mr. F. G. Garlick	6	1 6	60	39·3	39·53	..	121
D Tenby (The Priory)	G. P. Webb, Esq.	8	0 10	87	40·9	41·31	185	143
D St. Ann's Head	The Meteorological Office	8	1 0	142	35·3	32·95	179	146
D Pembroke Dock (County School)	J. H. Garnett, Esq.	5	1 0	85	42·7	37·29	196	149
D Pembroke Dock (R.A.F.)	Air Ministry	8	1 0	90	..	38·20	186	158
D Saundersfoot (Hean Castle)	Lord Merthyr	5	1 0	206	36·3	36·72	165	142
D Saundersfoot (Stepaside, Merryvale)	J. C. Pickering, Esq.	5	0 10	105	..	39·83	188	155
D Narberth (Cwmderwen)	Mrs. Allen	5	1 0	300	..	43·54	198	158
Haverfordwest (Picton Castle)	Sir C. E. G. Philipps, Bt.	5	0 10	138	46·8	42·40	..	..
D Haverfordwest (Portfield)	J. W. Phillips, Esq.	5	1 0	250	44·8	43·50	204	154
D Haverfordwest (Grammar Sch.)	J. W. Phillips, Esq.	5	1 0	95	46·4	45·51	207	162
d Mynachlogddû (Cl. School)	W. H. Parry, Esq.	5	1 4	630	60·7	56·44	..	..
CARDIGAN. (Area, 688 sq. mi.)								
1.—DOVEY. 20 sq. mi.								
D Glandyfi (Ynyshir Hall)	W. H. Mappin, Esq.	5	1 2	45	..	38·51	210	159

DIVISION XI—MONMOUTH, WALES, AND THE ISLANDS—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1932. Rainfall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
CARDIGAN—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
2.—YSTWYTH & C. 347 sq. mi.								
D Llanafan (Crosswood Park)	The Earl of Lisburne	5	1 0	201	..	45·55	231	173
D Aberystwyth (Corporation Yard)	The Town Clerk	8	1 0	69	..	35·83	205	147
D Aberystwyth (North Parade)	Dr. A. Thomas	8	2 6	16	..	35·35	201	136
D Aberystwyth (Plant Breeding Stn.)	Prof. R. G. Stapledon	5	1 0	450	..	38·61	218	154
D Elerch (Lletty-evan-hen)	Prof. R. G. Stapledon	5	1 0	900	..	41·22	204	165
3.—TEIFI. 260 sq. mi.								
d Llechryd (Castle Malgwyn)	Mrs. Gower	5	1 0	50	..	39·65	..	..
D Cardigan (Plas Llangoedmore)	D. Berrington Davies, Esq.	5	4 1	120	..	42·51	179	158
D Cardigan (County School)	W. R. Jones, Esq., M.A.	5	1 6	72	..	39·93	182	150
D Lampeter (Falcondale)	Mr. A. R. Taylor	5	1 0	498	..	53·45	212	169
Yspytty-Ystwyth (Dolgroes)	R. Roberts, Esq., for M.O.	5	1 0	780	..	56·85	..	..
4.—TOWY. 46 sq. mi.								
d Abergwesyn (Nantneuadd)	W. Roberts, Esq., for M.O.	5	1 0	1000	..	74·67	..	150
M Tregaron (Maes-y-bettws)	T. Jones, Esq., for M.O.	5	1 0	910	..	69·30	..	..
5.—WYE. 15 sq. mi.								
M Birmingham W.W. (Llyn Gynon)	J. W. Wilkinson, Esq., C.E.	5	1 0	1500	..	71·10	..	..
M Birmingham W.W. (Bwlchyrhendre)	J. W. Wilkinson, Esq., C.E.	5	1 0	1585	..	71·20	..	..
M Birmingham W.W. (Claerddu)	J. W. Wilkinson, Esq., C.E.	5	1 0	1470	..	74·80	..	..
M Birmingham W.W. (Gwngu)	J. W. Wikinson, Esq., C.E.	5	1 0	1490	..	(65·78)	..	..
d Birmingham W.W. (Abergwngu)	J. W. Wilkinson, Esq., C.E.	5	1 0	1150	..	(68·98)	..	184
M Plynlimon	J. Thomas, Esq., for M.O.	5	1 0	1630	108·0	91·00	..	..
BRECON. (Area, 733 sq. mi.)								
1.—TOWY. 17 sq. mi.								
2.—TAWE. 41 sq. mi.								
D Ystradgynlais (Yniscedwyn Ho.)	G. Coleman, Esq.	5	0 9	232	65·2	65·11	184	162
D Swansea W.W. (Nantyrwydd)	Lt.-Col. F. Hibbert, C.E.	5	0 10	908	90·8	88·73	221	183
3.—NEATH. 48 sq. mi.								
D Ystradfellte Reservoir	D. M. Davies, Esq., C.E.	5	1 0	1147	85·4	81·64	182	155
4.—TAFF. 48 sq. mi.								
D Aberdare (Nanthir Reservoir)	I. A. Bryant, Esq., C.E.	5	1 0	860	59·6	67·82	215	192
D Taf Fechan (Pontsticill) No. 12	A. C. Quiningborough, Esq.	5	1 0	1031	..	65·73	225	179
M Taf Fechan (Pontsticill West) 14	A. C. Quiningborough, Esq.	5	1 0	1254	..	64·99	..	..
D Cardiff W.W. (Llwynon Res.)	N. J. Peters, Esq., C.E.	5	1 0	860	62·7	67·61	217	171
w Cardiff W. W. (Nant Ffynnon)	N. J. Peters, Esq., C.E.	5	1 0	1352	..	77·00	..	..
M Cardiff W.W. (Garn Ddu)	N. J. Peters, Esq., C.E.	5	1 0	1340	..	74·80	..	..
w Cardiff W.W. (Pont-ar-daf)	N. J. Peters, Esq., C.E.	5	1 0	850	67·9	70·63	..	..
D Cardiff W.W. (Garw-nant)	N. J. Peters, Esq., C.E.	5	1 0	1100	..	79·66	223	174
w Cardiff W.W. (Nant-Gwineu)	N. J. Peters, Esq., C.E.	5	1 0	1200	..	74·47	..	..
w Cardiff W.W. (Cefn Gougarn)	N. J. Peters, Esq., C.E.	5	1 0	1362	..	78·95	..	..
w Cardiff W.W. (Llysiog)	N. J. Peters, Esq., C.E.	5	1 0	1080	..	72·17	..	..
D Taf Fechan (Pentwyn Res. S.)	A. C. Quiningborough, Esq.	5	1 0	1120	..	72·88	226	178
Taf Fechan (Pentwyn Res. N.)	A. C. Quiningborough, Esq.	5	1 0	1090	..	71·83	..	..
w Cardiff W.W. (Twyn Gareg)	N. J. Peters, Esq., C.E.	5	1 0	1501	..	94·60	..	..
M Cardiff W.W. (Blaen Nant Ddu)	N. J. Peters, Esq., C.E.	5	1 0	1550	..	74·63	..	..
M Cardiff W.W. (Nant Ddu)	N. J. Peters, Esq., C.E.	5	1 0	1560	..	75·17	..	..
D Cardiff W.W. (Cantreff R.) No. 2.	N. J. Peters, Esq., C.E.	5	1 0	1080	69·8	73·99	208	181
D Cardiff W.W. (Beacons Res.) No. 6.	N. J. Peters, Esq., C.E.	5	1 0	1340	79·3	84·56	220	184
w Cardiff W.W. (Nant Penig) No. 3.	N. J. Peters, Esq., C.E.	5	1 0	2000	85·8	99·67	..	..
M Cardiff W.W. (Blaen Nant Crew)	N. J. Peters, Esq., C.E.	5	1 0	2090	..	81·72	..	..
D Cardiff W.W. (Storey Arms Field)	N. J. Peters, Esq., C.E.	5	1 0	1430	..	95·27	218	182
wCardiff W.W.(Blaen Taf Fawr) *new g*	N.J. Peters, Esq., C.E.	5	1 0	1430	86·8	93·45	..	..

DIVISION XI—MONMOUTH, WALES, AND THE ISLANDS—(*con.*).

	STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1932. Rainfall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
	BRECON—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
	4.—TAFF—(*con.*).								
D	Taf Fechan (Neuadd Rs.) No. 1	A. C. Quiningborough, Esq..	5	1 0	1462	*70·3*	83·06	226	181
D	Taf Fechan (Neuadd Rs.) No. 1A	A. C. Quiningborough, Esq..	5	1 0	1423	..	91·87	226	184
D	Taf Fechan (Neuadd Rs.) No. 4	A. C. Quiningborough, Esq..	5	1 0	1487	*82·7*	90·18	226	190
D	Taf Fechan (Neuadd Rs.) No. 11	A. C. Quiningborough, Esq..	5	1 0	1524	68·3	84·27	225	180
D	Taf Fechan (Neuadd Rs.) No. 11A	A. C. Quiningborough, Esq..	5	1 0	1520	..	88·24	225	185
M	Taf Fechan (Neuadd Rs.) No. 2	A. C. Quiningborough, Esq..	5	1 0	1993	*72·7*	81·36	..	..
M	Taf Fechan (Neuadd Rs.) No. 5	A. C. Quiningborough, Esq..	5	1 0	1515	*81·1*	90·32	..	..
M	Taf Fechan (Neuadd Rs.) No. 10	A. C. Quiningborough, Esq..	5	1 0	1700	72·7	81·33	..	..
M	Taf Fechan (Neuadd Rs.) No. 3	A. C. Quiningborough, Esq..	5	1 0	1843	60·6	79·82	..	..
M	Taf Fechan (Neuadd Rs.) No. 7	A. C. Quiningborough, Esq..	5	1 0	2017	*81·1*	101·24	..	..
M	Taf Fechan (Neuadd Rs.) No. 8	A. C. Quiningborough, Esq..	5	1 0	1723	*85·7*	96·33	..	..
M	Taf Fechan (Neuadd Rs.) No. 8A	A. C. Quiningborough, Esq..	5	1 0	1780	..	89·39	..	..
M	Taf Fechan (Neuadd Rs.) No. 6	A. C. Quiningborough, Esq..	5	1 0	2099	*92·4*	105·67	..	..
	5.—RHYMNEY. 2 sq. mi.								
	6.—EBBW. 7 sq. mi.								
D	Ebbw Vale W.W. (Llangynidr) 1	P. I. Davies, Esq., C.E.....	5	1 0	1413	58·8	73·85	191	178
D	Ebbw V. W.W.(Llangynidr) W 3	P. I. Davies, Esq., C.E.....	5	1 0	1468	..	74·98	191	177
D	Ebbw V. W.W. (Llang'ndr) NW2	P. I. Davies, Esq., C.E.....	5	1 0	1471	..	73·29	191	177
D	Ebbw Vale W.W. (Carno, S.)	P. I. Davies, Esq., C.E.....	5	1 0	1262	..	71·99	191	175
D	Ebbw Vale W.W. (Carno, E.)	P. I. Davies, Esq., C.E.....	5	1 0	1391	..	71·49	191	177
D	Ebbw Vale W.W. (Carno, W.)	P. I. Davies, Esq., C.E.....	5	1 0	1412	..	73·63	191	176
D	Ebbw Vale W.W. (Carno, N.)	P. I. Davies, Esq., C.E.....	5	1 0	1491	..	71·13	190	175
	7.—USK. 299 sq. mi.								
	Torpantau (Darenfawr)	Newport Corporation.....	5	1 0	1172	..	81·01	..	..
	Torpantau (Ynysposte)	Newport Corporation.....	5	1 0	741	..	74·58	..	..
	Torpantau (Blaen-caer-fanell)	Newport Corporation.....	5	1 0	1584	..	81·15	..	..
D	Talybont (Ffynonwen)	Newport Corporation.....	5	1 0	610	..	67·80	208	163
	Talybont (Pwll Ifor)	Newport Corporation.....	5	1 0	1224	..	75·35	..	..
D	Talybont (Aberclydach)	G. Garnons Williams, Esq...	8	0 9	520	..	52·47	186	141
D	Crickhowell Rectory	Rev. G. Roberts.....	5	1 0	320	..	44·30	181	149
D	Crickhowell (Gwernvale)	E. Pirie Gordon, Esq.....	5	1 0	393	*41·5*	44·60	212	153
D	Crickhowell (Glanusk Park)	Lord Glanusk.....	5	1 0	290	..	46·88	189	144
M	Swansea W.W. (Cray Rs.) No. 2	Lt.-Col. F. Hibbert, C.E....	5	1 0	1019	..	92·16	..	..
D	Swansea W.W.(Cray Rs.) No.1 (+A)	Lt.-Col. F. Hibbert, C.E...	5	1 0	1043	..	74·83	207	168
M	Cray Post Office	J. A. Jones, Esq., for M.O...	5	1 0	930	..	74·25	..	..
D	Talybont (Ashford)	J. Henderson, Esq.....	5	1 0	360	..	51·15	183	127
M	Talybont (Cwy Parc)	Rev. D. W. G. Bartlett....	5	1 6	480	..	37·13	..	..
D	Llanfrynach (Ty-mawr)	Miss M. D. de Winton.....	5	1 0	450	..	46·42	188	142
D	Crickhowell (Dan-y-Parc)	R. G. C. C. Sandeman, Esq..	8	1 0	230	..	46·38	194	142
	Crickhowell (Cwmdu Rectory)	Rev. W. A. Davies.....	5	1 0	430	..	35·03	..	..
	Crickhowell (Tal-y-maes)	W. Jones, Esq., for M.O....	5	1 0	1250	..	48·25	..	..
d	Trecastle (Blaenau-hydfer)	Mrs. Morgan, for M.O.....	5	1 0	970	..	78·65	..	..
D	Brecon (Tairbull School)	I. L. Price, Esq.....	5	1 0	660	52·0	58·70	215	163
D	Brecon (Ffrwdgrech)	Capt. J. D. D. Evans.... .	8	1 1	570	..	56·23	171	151
d	Brecon (Mount St. Sch. Gdns.)	The Headmaster.....	5	0 11	500	..	52·51	..	..
D	Battle (Penoyre)	G. E. Weekes, Esq.....	5	1 0	830	..	49·87	206	164
D	Black Mountains (Blaen-y-cwm)	J. F. Jupp, Esq., C.E.....	5	1 0	1423	..	55·66	208	174
D	Black M. (Dam Site Grwyne Fawr)	J. F. Jupp, Esq., C.E.....	5	1 0	1620	..	58·61	207	176
M	Upper Chapel (Tymawr)	Mrs. Probert.....	5	1 0	945	46·9	52·80	..	..

DIVISION XI—MONMOUTH, WALES, AND THE ISLANDS—(*con.*).

	STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1932. Rainfall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
	BRECON—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
	8.—WYE. 271 sq. mi.								
D	Cathedine Rectory	D. H. Picton, Esq., for M.O..	5	1 6	650	..	33·11	161	129
d	Talgarth (Arfryn)	F. Morgan, Esq.	5	1 0	450	*33·2*	37·08	..	124
D	Talgarth (Pontiwal Sanatorium)	Dr. H. E. Watson	5	0 10	500	..	37·30	210	160
D	Glasbury (Gwernyfed Park)	H. H. Miller, Esq.	5	1 0	375	31·5	36·18	165	131
M	Abergwesyn (Trallwn)	J. Felix, Esq., for M.O.	5	1 0	1000	..	81·20	..	..
	Llanafanfawr	W. D. Swan, Esq.	5	1 3	800	..	44·42	..	..
M	Newbridge (Pengraig)	Miss A. Williams, for M.O...	5	1 0	960	56·8	56·45	..	..
D	Newbridge (Llysdinam)	Sir C. Venables Llewelyn, Bt.	5	1 3	646	41·2	42·53	207	164
M	Birmingham W.W. (Cors-yr-hwch)	J. W. Wilkinson, Esq., C.E..	5	1 0	1775	..	88·89	..	..
M	Birmingham W.W. (Esgair Ceiliog)	J. W. Wilkinson, Esq., C.E..	5	1 0	1560	..	80·82	..	..
M	Birmingham W.W. (Llyn-Carw)	J. W. Wilkinson, Esq., C.E..	5	1 0	1775	..	81·94	..	..
M	Birmingham W.W. (Nant-y-car)	J. W. Wilkinson, Esq., C.E..	5	1 0	1545	..	(80·04)	..	..
M	Birmingham W.W. (Arban)	J. W. Wilkinson, Esq., C.E..	5	1 0	1500	..	76·75	..	..
M	Birmingham W.W. (Tyn-y-pant)	J. W. Wilkinson, Esq., C.E..	5	1 0	1320	63·2	61·60	..	..
M	Birmingham W.W. (Esgair Garthen)	J. W. Wilkinson, Esq., C.E..	5	1 0	1590	..	(79·61)	..	..
D	Birmingham W.W. (Elan Village)	J. W. Wilkinson, Esq., C.E..	5	1 0	700	..	59·37	211	172
	RADNOR. (Area, 474 sq. mi.)								
	1.—WYE. 424 sq. mi.								
D	Glasbury-on-Wye (Hampton Sc.)	D. W. Lloyd, Esq.	5	1 0	274	33·9	32·86	185	129
D	Llyswen (Llanstephan Ho. Gdns.)	Lady Phillips	5	1 3	440	..	37·17	177	138
D	Builth (Cefndyrys)	Capt. E. A. Thomas	5	1 10	740	41·5	42·38	190	170
	Builth Rd. (St. John's Vicarage)	Rev. Canon J. L. Bryans...	5	1 0	550	41·9	42·43	213	164
M	New Radnor (Gryliss)	H. Langston, Esq.	5	1 0	1200	..	43·03	..	..
d	New Radnor (Harpton Crt. Gdns.)	The Head Gardener	5	0 9	700	..	42·66	..	148
	New Radnor	John Langston, Esq.	5	1 0	750	44·1	42·52	219	..
D	Llandrindod Wells	Rev. J. L. Herbert	5	1 0	712	39·3	44·36	214	159
D	Birmingham W.W. (Tyrmynydd)	J. W. Wilkinson, Esq., C.E..	5	1 0	832	62·1	(60·60)	227	171
D	Birmingham W.W. (Nantgwillt)	J. W. Wilkinson, Esq., C.E..	5	1 0	840	63·2	62·94	231	174
M	Birmingham W.W. (Dwfnant)	J. W. Wilkinson, Esq., C.E..	5	1 0	1050	67·8	(67·76)	..	..
M	Birmingham W.W. (Esgair Gader) 2	J. W. Wilkinson, Esq., C.E..	5	1 0	1500	68·9	(70·25)	..	..
M	Birmingham W.W. (Tynllidiart)	J. W. Wilkinson, Esq., C.E..	5	1 0	1006	..	(67·11)	..	..
d	Birmingham W.W. (Claerwen)	J. W. Wilkinson, Esq., C.E..	5	1 0	1250	65·2	70·50	..	193
D	Birmingham W.W. (Tynant)	J. W. Wilkinson, Esq., C.E..	5	1 0	1020	63·6	67·68	230	173
D	Rhayader (Penralley)	E. D. Prothero, Esq.	5	1 0	757	50·6	48·94	229	156
	Rhayader (East Street)	R. Ashton, Esq.	5	1 0	700	..	51·87	..	..
M	Birmingham W.W. (Cerigllwydion)	J. W. Wilkinson, Esq., C.E..	5	1 0	1710	74·8	(77·30)	..	..
M	Birmingham W.W. (Pen-y-gareg)	J. W. Wilkinson, Esq., C.E..	5	1 0	1500	55·2	(55·18)	..	..
M	Birmingham W.W. (Pen-y-gareg) 2	J. W. Wilkinson, Esq., C.E..	5	1 0	1540	43·9	(59·28)	..	..
M	Birmingham W.W. (Bryn Hir)	J. W. Wilkinson, Esq., C.E..	5	1 0	1470	..	77·35	..	..
M	Birmingham W.W. (Abercaethon)	J. W. Wilkinson, Esq., C.E..	5	1 0	1240	..	(71·77)	..	..
M	Birmingham W.W. (Calettwr)	J. W. Wilkinson, Esq., C.E..	5	1 0	1490	71·1	(81·53)	..	..
M	Birmingham W.W. (Figin) No. 2.	J. W. Wilkinson, Esq., C.E..	5	1 0	1700	83·3	85·00	..	..
M	Birmingham W.W. (Aberhenllan)	J. W. Wilkinson, Esq., C.E..	5	1 0	1070	58·8	68·05	..	..
M	Llanbister (Llananno)	Mrs. A. Jones, for M.O.	5	1 0	900	45·1	50·50	..	..
	2.—SEVERN—Right Bank Tributaries. 50 sq. mi.								
	MONTGOMERY. (Area, 797 sq. mi.)								
	1.—DOVEY. 120 sq. mi.								
d	Machynlleth (Plas Llwyn Gwern)	The Hon. R. E. B. Beaumont	5	0 9	150	..	(66·45)	(196)	(183)
	Cemmaes (Glyn Orig)	F. C. Best, Esq.	5	1 0	125	..	56·13	..	..
	2.—YSTWYTH. 7 sq. mi.								
	3.—WYE. 37 sq. mi.								
	4.—SEVERN—Right Bank Tributaries. 154 sq. mi.								
D	Llanidloes (Llidiartywaen Sch.)	G. E. Edwards, Esq.	5	1 3	1150	..	45·77	232	160
d	Llandinam (Broneirion)	D. Humphreys, Esq.	5	1 3	450	..	37·33	..	145
d	Newtown (Penarth Weir)	Canal Engr., L M & S Rly...	8	1 0	321	35·0	39·31	(218)	(167)
D	Montgomery (Oakfield)	Dr. R. E. Game Phillips....	5	1 0	450	..	34·79	203	155

DIVISION XI—MONMOUTH, WALES, AND THE ISLANDS—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1932. Rainfall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
MONTGOMERY—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
5. SEVERN—Left Bank Tributaries. 479 sq. mi.								
D Berriew (Brithdir Hall)	Mrs. F. E. Marston	5	1 0	350	30·7	33·48	245	155
D Welshpool (County School)	John Ward, Esq.	5	1 0	254	30·1	34·36	189	149
D Welshpool (Fron Llwyd)	Col. G. B. D. Harrison	5	1 3	500	33·7	36·73	206	156
Garthbibio (Bwlch Tomlyd)	J. R. Jones, Esq., for M.O.	5	1 0	1200	71·0	(81·20)	..	..
D Llanfyllin (Llwyn)	Major W. M. Dugdale	5	0 10	450	..	37·50	..	..
D Llandysilio Rectory	Rev. H. G. Dickinson	5	1 6	250	..	33·21	182	142
D Lake Vyrnwy	J. E. Bradley, Esq.	5	0 7	770	54·0	61·24	199	189
Lake Vyrnwy (Bryn Gwyn)	Col. J. R. Davidson, C.E.	8	1 0	1311	..	61·75	..	..
D Lake Vyrnwy (Bank Cynon Isaf))	Col. J. R. Davidson, C.E.	8	1 0	750	55·3	55·37	207	167
Lake Vyrnwy (Ty Uchaf)	Col. J. R. Davidson, C.E.	8	1 0	860	..	61·09	..	..
Lake Vyrnwy (Heol-y-ffridd) 1	Col. J. R. Davidson, C.E.	8	1 0	913	..	72·17	..	..
Lake Vyrnwy (Heol-y-ffridd) 2	Col. J. R. Davidson, C.E.	8	1 0	830	..	66·56	..	..
Lake Vyrnwy (Tyn-y-ffridd)	Col. J. R. Davidson, C.E.	8	1 0	1010	..	61·66	..	..
Lake Vyrnwy (Lluestwen)	Col. J. R. Davidson, C.E.	8	1 0	1667	..	80·42	..	..
Lake Vyrnwy (Llwynrhiw)	Col. J. R. Davidson, C.E.	8	1 0	1428	..	82·44	..	..
Lake Vyrnwy (Craig-y-Gribin)	Col. J. R. Davidson, C.E.	8	1 0	1422	..	76·63	..	..
Lake Vyrnwy (Carreg Goch)	Col. J. R. Davidson, C.E.	8	1 0	1750	..	68·55	..	..
Lake Vyrnwy (Fawnog)	Col. J. R. Davidson, C.E.	8	1 0	1315	55·7	63·21	..	..
FLINT. (Area, 256 sq. mi.)								
1.—DEE. 198 sq. mi.								
d Hanmer (Gredington)	Lady Kenyon	5	1 0	300	30·4	31·27	..	145
D Overton (Fairleigh)	Dr. B. J. E. Wright	5	1 0	220	26·8	29·80	207	138
w Buckley (Hawarden W.W.)	W. Simmons, Esq.	5	1 0	540	28·7	32·80	..	..
D Hawarden (County School)	C. F. Williams, Esq.	5	0 9	257	27·2	28·50	166	141
D Mold (Alun County School)	The Headmaster	5	1 0	365	..	31·95	181	139
D Mold (Mount Pleasant)	R. F. Baker, Esq., C.E.	5	1 0	503	..	33·85	222	153
D Cilcain (No. 2 Reservoir) *old g.*	W. Simmons, Esq.	5	1 0	785	..	34·74	206	155
w Cilcain (No. 4 Reservoir) *new g.*	W. Simmons, Esq.	5	1 0	900	..	34·01	..	..
D Northop (Soughton Hall)	Sir John Bankes	5	1 0	418	32·1	36·10	188	155
D Cilcain (Cilcen Hall)	W. B. Yates, Esq., C.B.E.	5	1 0	650	29·7	32·62	206	151
D Connah's Quay (Mold Road)	R. F. Baker, Esq., C.E.	5	1 0	43	..	28·92	195	140
D Connah's Quay (Pengwladys)	R. F. Baker, Esq., C.E.	5	1 0	231	..	29·07	195	143
D Hawarden Bridge	Messrs. J. Summers & Sons.	8	1 3	20	24·3	26·28	181	128
D Sealand Aerodrome (+A)	The Meteorological Office.	8	1 0	16	26·0	24·91	178	128
2.—CLWYD. 51 sq. mi.								
D Bodfari (Nantlys)	D. F. Pennant, Esq., D.L.	5	1 5	178	27·4	28·54	189	143
D St. Asaph (St. Beuno's Coll.)	The Procurator	5	1 0	479	..	30·35	203	138
Dyserth Castle	J. B. Price, Esq.	5	1 0	350	..	26·81	..	..
D Rhyl (Sewage Works)	The Town Clerk	8	1 0	30	25·8	26·79	194	134
D Prestatyn (St. Chads)	D N. Payne, Esq.	8	1 6	60	..	27·19	177	137
D Prestatyn	The Town Clerk	5	1 0	18	..	26·70	177	131
3.—SEVERN—Left Bank Tributaries. 7 sq. mi.								
DENBIGH. (Area, 668 sq. mi.)								
1.—DEE. 278 sq. mi.								
Glynceiriog (Plas Nantyr)	C. B. C. Storey, Esq.	6	1 0	1450	..	52·24	..	..
D Chirk Castle Gardens	Lord Howard de Walden	5	1 0	630	..	35·57	184	143
D Llangollen (Vivod)	Capt. W. Best	5	2 6	640	..	36·69	183	147
D Ruabon (Trevor Hall)	E. Lloyd Edwards, Esq.	5	1 0	500	30·9	35·35	177	158
d Wrexham W. W. (Ty Mawr Res.)	J. A. Davies, Esq.	5	0 9	805	*39·1*	41·25	(224)	(173)
D Wrexham W.W.(Pack Saddle Res.)	J. A. Davies, Esq.	5	0 9	376	32·0	35·40	220	148
d Wrexham W.W. (Cae Llwyd Res.)	J. A. Davies, Esq.	8	0 9	918	*41·1*	39·28	(224)	(172)
d Wrexham W.W. (Cae Llwyd Res.)	J. A. Davies, Esq.	5	0 9	918	*40·5*	40·97	(224)	(172)

DIVISION XI—MONMOUTH, WALES, AND THE ISLANDS—(*con.*).

	STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1932. Rainfall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
	DENBIGH—(*con.*)		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
	1.—DEE—(*con.*).								
d	Wrexham (Beechley Road)	O. L. Jones, Esq.	2	1 0	278	..	33·26	..	149
	Wrexham (Madeira Hill)	O. L. Jones, Esq.	5	1 0	281	..	33·20	..	..
D	Llanfihangel-glyn-myfyr	R. F. Baker, Esq., C.E.	5	1 0	898	..	48·47	201	172
D	R. Alwen (Alwen Filter House)	R. F. Baker, Esq., C.E.	5	1 0	1100	..	53·24	216	180
D	R. Alwen (Alwen Dam)	R. F. Baker, Esq., C.E.	5	1 0	1189	..	56·13	217	181
D	R. Alwen (Hafod-llan-isaf) No. 2.	R. F. Baker, Esq., C.E.	5	1 0	1172	39·2	47·23	216	175
D	R. Alwen (Hafod-llan-isaf) No. 3.	R. F. Baker, Esq., C.E.	5	1 0	1169	36·8	47·44	215	175
w	Pentre Voelas (Nant Heilyn)	R. F. Baker, Esq., C.E.	5	1 0	1225	..	53·99	..	..
D	R. Brenig (Hafod-yr-Onen)	R. F. Baker, Esq., C.E.	5	1 0	1175	..	44·33	195	172
M	Nantglyn (Pant-y-maen)	R. F. Baker, Esq., C.E.	8	1 0	1320	..	57·06	..	..
M	Llyn Bran	R. F. Baker, Esq., C.E.	8	1 0	1428	..	59·30	..	..
	Llanferres (Glanrafon)	Miss A. Simpson	5	1 4	625	..	36·66	..	..
	2.—CLWYD & C. 267 sq. mi.								
	Derwen (Ty Cerrig)	Edgar Billson, Esq.	5	1 0	1030	..	40·62	..	..
D	Pentre Celyn (Council School)	The Headmaster	5	1 3	400	30·1	31·21	168	136
D	Clawdd-newydd No. 2	R. F. Baker, Esq., C.E.	5	1 0	983	..	42·03	175	160
w	Ruthin (Corwen Road)	R. F. Baker, Esq., C.E.	5	1 0	234	..	32·42	..	..
D	Ruthin (Bwlch Tunnel)	R. F. Baker, Esq., C.E.	5	1 0	908	..	34·22	227	158
D	Llangynhafal (Plâs Dràw)	Major R. Bromhead	5	1 0	419	31·1	33·68	217	163
d	Gwytherin Council School	C. E. Jones, Esq.	5	1 1	730	50·1	47·38	..	..
D	Denbigh (Mental Hospital)	W. Barker, Esq.	4	1 0	316	..	33·28	201	161
D	Llangwyfan (N. Wales Sanatorium)	Medical Superintendent	5	1 6	460	..	29·13	203	152
D	Denbigh (Garn)	J. D. W. Griffith, Esq.	5	1 0	447	32·7	34·26	203	151
d	Trefnant School	The Head Teacher	5	1 0	300	..	30·51	(189)	(151)
M	Llanefydd (Dolwen Res., S.)	O. P. Cronshaw, Esq.	5	1 0	600	..	37·84	..	..
M	Llanefydd (East)	O. P. Cronshaw, Esq.	5	1 0	570	..	36·35	..	..
D	Llanefydd (Plas Uchaf Res.)	O. P. Cronshaw, Esq.	5	1 0	485	..	38·17	217	161
D	Llanefydd (Glascoed Res.)	O. P. Cronshaw, Esq.	5	1 0	360	..	30·33	204	148
D	Abergele (Sea Road)	Sydney Wilson, Esq.	5	1 0	25	28·4	28·16	194	141
D	Colwyn Bay (Eirias Park)	The Borough Surveyor	5	1 0	81	..	32·87	205	147
	3.—CONWAY—4 sq. mi.								
D	Pentre Voelas (Voelas Hall)	Mr. T. N. Dickie	5	1 0	640	..	58·10	203	170
D	Bettws-y-Coed (Rhydycrena)	Mrs. G. Bovill	5	1 0	50	..	53·72	210	167
	4.—SEVERN—Left Bank Tributaries. 47 sq. mi.								
D	Llansilin (Penygwely Res.)	G. W. Lacey, Esq., C.E.	5	1 0	1095	..	39·21	201	163
	MERIONETH. (Area, 661 sq. mi.)								
	1.—DEE. 218 sq. mi.								
D	Llanuwchllyn	O. L. Jones Esq.	5	1 0	550	..	64·47	192	170
D	Bala (Eryl Aran)	Mrs. Burton	8	1 0	600	54·6	67·55	200	179
D	Llanderfel (Pale Gardens)	Mr. E. Sturgess	8	1 0	606	48·2	54·19	179	160
	Trawsfynydd (Cwm Prysor)	N. Wales Power Co., Ltd.	5	1 3	1300	..	91·29	..	..
D	Corwen (Rûg Gardens)	Col. R. Vaughan Wynn	8	1 2	600	36·2	47·58	195	180
w	Derwen (Minffordd)	R. F. Baker, Esq., C.E.	5	1 0	971	..	40·45	..	..
	2.—CLWYD. 7 sq. mi.								
	3.—GLASLYN. 92 sq. mi.								
	Trawsfynydd (Tyn Twll)	N. Wales Power Co., Ltd.	5	1 3	750	..	85·15	..	..
D	Minffordd (Plas Penrhyn)	Mrs. H. Kitching	5	0 9	220	..	52·85	204	170
D	Minffordd (Hafod-Cae-Maen)	G. H. C. Haigh, Esq.	5	1 0	100	50·5	53·34	201	175
D	Tan-y-bwlch (Plas Gardens)	Mr. F. W. Dawe	5	1 0	55	..	63·36	224	179
D	Tan-y-bwlch (Dol-y-Moch)	Mrs. Howland Jackson	5	1 0	55	..	70·66	195	176
D	Festiniog (Hafod Fawr)	Forestry Commission	8	1 4	1000	74·6	73·58	205	188
d	Blaenau Festiniog (Oakeley Q.)	J. Lloyd Humphreys, Esq.	5	1 0	1100	97·1	107·45	(219)	(201)
D	Blaenau Festiniog (Llechwedd Q.)	Messrs. J. W. Greaves & Sons	5	1 0	700	..	112·77	263	220

DIVISION XI—MONMOUTH, WALES, AND THE ISLANDS—(*con.*).

	STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Rain-gauge: Average Rainfall.	1932. Rainfall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
	MERIONETH—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
	4.—MAWDDACH & C. 262 sq. mi.								
D	Towyn (Ynys-y-Maengwyn)	R. Corbett, Esq.	5	1 0	14	..	40·65	190	152
D	Towyn (Bronffynnon) *new g*	Dr. T. Henry Jones	5	1 0	180	..	39·96	203	153
D	Towyn (Peniarth)	Mrs. Wynne	8	1 0	25	..	50·72	190	166
D	Tal-y-llyn Rectory	Rev. J. Pryce Jones	5	1 0	280	..	67·96	170	157
D	Dolgelley (Dol'rhyd)	Col. P. H. Enthoven, D.L.	5	1 0	150	..	58·70	204	169
D	Dolgelley (Borthwnog)	Col. C. W. H. Crichton	5	2 3	5	..	51·93	206	163
D	Dolgelley (Bontddu)†	E. P. Beale, Esq.	5	0 10	50	58·8	61·56	213	175
D	Trawsfynydd Camp	E. Jones, Esq.	5	1 0	800	67·0	73·99	202	180
	5.—DOVEY. 82 sq. mi.								
D	Aberdovey (Plas Penhelig)	J. M. Howell, Esq., D.L.	5	1 0	120	..	40·67	190	153
d	Llwyn-Celyn *new g*	Lt.-Col. M. V. le P. Trench	5	1 0	30	..	(50·59)	(208)	(165)
D	Pennal (Talgarth Hall)	Owen D. Jones, Esq.	5	0 9	125	..	52·74	202	157
	6.—SEVERN—Left Bank Tributaries.								
	CARNARVON. (Area, 572 sq. mi.)								
	1.—BARDSEY ISLAND.								
	2.—CONWAY & C. 146 sq. mi.								
	Lake Cowlyd (Llethyr Gwyn) c	C. F. Farrington, Esq., C.E.	5	1 0	1700	..	106·43	183	..
	L. Cowlyd (Ffrith Carreg Wen) A	C. F. Farrington, Esq., C.E.	5	1 0	1168	..	90·30	183	..
d	Trefriw Wells	C. P. Adamson, Esq.	5	1 0	25	..	54·22	(172)	(142)
D	Lake Eigiau (Dam Site) (+A)	N. Wales Power Co., Ltd.	5	1 5	1244	*83·9*	79·12	229	191
	Llanbedr-y-Cennin (Melynllyn)	W. T. Ward, Esq., C.E.	5	1 0	2065	..	117·63	..	..
	Llanbedr-y-Cennin (Llyndulyn) *old g*	W. T. Ward, Esq., C.E.	8	1 6	1632	93·6	93·60	..	..
	Llanbedr-y-Cennin (Llyndulyn) *new g*	W. T. Ward, Esq., C.E.	8	1 6	1632	..	107·49	..	..
	Llanbedr-y-Cennin (Plasdulyn)	W. T. Ward, Esq., C.E.	8	1 0	509	..	53·09	..	..
D	Tyn-y-Groes (Dolcrwm)	R. S. Fisher, Esq.	5	1 0	100	..	47·23	197	164
D	Tyn-y-Groes (Roe Wen)	Albert Wilson, Esq	5	1 0	140	..	46·72	213	164
D	Conway (Mussel Tks.)	Ministry of Agric. & Fisheries	5	1 0	50	..	31·88	182	141
	Deganwy (Y Berlfa)	Dr. Willoughby Gardner	5	1 0	35	..	33·48	..	..
d	Llandudno (Glanwydden School)	Thomas Roberts, Esq.	5	2 0	28	28·7	32·91	..	..
D	Llandudno	E. R. Williams, Esq.	5	1 0	22	30·0	28·76	199	145
	3.—MENAI STRAITS. 221 sq. mi.								
D	Edeyrn Tydweiliog (Cefnamlwch)	The Head Gardener	5	1 0	300	..	39·39	190	159
D	Madryn Castle (Farm School)	The Principal	5	1 0	278	39·0	39·21	193	152
d	Llanaelhaearn (Cl. School)	J. Hughes, Esq.	5	1 0	500	51·6	51·91	..	..
	Nantlle (Dorothea Quarries)	W. J. Griffith, Esq.	8	60 0	350	..	61·86	..	..
	Llandwrog (Glynllivon Park)	Col. Wynn	5	1 0	100	44·7	43·65	..	..
D	Llandwrog (Glynllivon Nursery)	Col. Wynn	5	1 0	180	..	47·14	200	168
	Llandwrog (Glynllivon Garden)	Col. Wynn	5	1 0	100	..	48·09	222	167
	Llandwrog (Glynllivon Fort)	Col. Wynn	5	1 0	180	..	51·79	205	170
D	Waenfawr Council School	D. R. Jones, Esq.	5	1 0	520	..	52·91	200	167
M	Lake Ogwen	Miss O. Griffith	5	1 0	1006	..	(110·38)	..	..
	Carnarvon (Belan Fort)	Col. Wynn	5	1 0	10	33·9	33·57	..	..
D	Llanbeblig (Cefn Rhos)	Miss A.Preece	8	1 0	..	..	41·49	212	173
d	Llanberis (Llandinorwig School)	John Roberts, Esq.	5	0 10	850	*59·4*	68·25	..	..
D	Bethesda (St. Ann's Vicarage)	Rev. Canon W. Morgan	5	1 6	500	*59·8*	63·24	228	177
D	Bethesda (Penrhyn Quarries)	A. H. Richards, Esq.	8	1 0	527	*65·8*	65·44	198	176
D	Bangor (Town Hall)	Water Engineer & Surveyor.	8	1 6	50	..	39·67	181	164
D	Bangor (Penrhyn Castle Gdns.)	Mr. J. Kneller	5	1 0	150	..	40·03	199	160
D	Aber (University Coll. Farm)	Prof. R. G. White	5	1 0	60	..	41·89	200	155
D	Llanfairfechan (Cae Cawr)	W. Timmins, Esq.	5	1 0	400	..	38·29	190	149
d	Llanfairfechan	The Surveyor, U.D.C.	5	1 0	120	37·9	(39·69)	..	..
D	Penmaenmawr (Plas Uchaf)	R. W. Barnes, Esq.	5	2 6	470	..	45·49	183	157

† Station formerly called Dolgelley (Bryntirion).

DIVISION XI—MONMOUTH, WALES, AND THE ISLANDS—(*con.*).

	STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1932. Rainfall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
	CARNARVON—(*con*).		*ins.*	*ft. ins.*	*ft.*	*ins.*	*in.*		
	4.—ERCH & C. 155 sq. mi.								
D	Abersoch	Lady Winterbotham	8	1 0	100	..	37·59?	196	151
D	Pwllheli (Talcymerau Bach)	B. V. Howell, Esq.	8	1 0	9	..	37·70	202	154
W	Pwllheli (Bodfean Hall)	Col. Wynn	5	1 0	155	43·7	42·34	..	..
D	Pwllheli (Bodfean Hall Gdns.)	Col. Wynn	5	3 9	155	43·2	41·98	182	167
D	Criccieth (Bron Eifion)	J. E. Creaves, Esq.	5	1 0	100	..	42·44	204	161
	5.—GLASLYN 50 sq. mi.								
D	Portmadoc (Wern)	R. M. Greaves, Esq.	5	1 0	90	..	50·88	216	173
d	Beddgelert (Co. School)	The Headmaster	5	1 2	133	..	93·95	..	..
	Snowdon (Wenallt) No. 6	N. Wales Power Co., Ltd.	5	1 2	1050	..	154·00	..	..
D	Snowdon (Cwm Dyli) No. 11	N. Wales Power Co., Ltd.	5	1 0	310	*117·9*	117·06	232	200
	Snowdon (Cwm Dyli, Old Rd.) 14	N. Wales Power Co., Ltd.	5	0 10	325	..	115·51	..	..
	Snowdon (Llewedd) No. 2	N. Wales Power Co., Ltd.	5	1 3	1485	..	129·02	..	..
M	Snowdon (Delta) No. 7	N. Wales Power Co., Ltd.	5	1 0	1435	..	176·90	..	..
M	Snowdon (Glaslyn) No. 3	N. Wales Power Co., Ltd.	5	0 8	2050	..	145·30	..	..
M	Snowdon (Teryn) No. 1	N. Wales Power Co., Ltd.	5	1 0	1080	..	162·30	..	..
d	Snowdon (Llydaw Intake) No. 10	N. Wales Power Co., Ltd.	5	1 0	1480	..	149·19	..	191
W	Snowdon (L. Llydaw Copper M.) 9	N. Wales Power Co., Ltd.	5	1 5	1480	..	163·80	..	..
M	Snowdon (Llyn Llydaw) No. 5	N. Wales Power Co., Ltd.	5	1 0	1470	..	136·40	..	..
M	Snowdon (Grib Goch) No. 8	N. Wales Power Co., Ltd.	5	1 3	2340	..	176·90	..	..
	ANGLESEY. (Area, 275 sq. mi.)								
D	Bryn-siencyn (Trefarthen)	Miss E. Meyrick	5	1 0	30	..	35·22	192	160
D	Llangadwaladr (Bodorgan)	Mr. W. Pilgrim	5	1 0	100	37·5	37·22	204	153
§	Llanfaelog	H. S. Lowe, Esq., J.P.	5	0 8	50	32·0	33·73	..	..
	Llanfaelog, No. 2	H. S. Lowe, Esq., J.P.	..	0 7	50	..	36·83	..	..
D	Plas Cadnant	Major T. Fanning Evans	5	1 0	156	..	43·64	188	168
d	Llangefni (Fronheulog)	A. H. Withinshaw, Esq.	5	1 0	125	..	36·62	..	..
d	Llansadwrn (Treffos)	C. Panton Vivian, Esq	..	..	318	..	40·71	..	149
	Beaumaris (Fryars) (R)	Mrs. Burton	10	2 0	20	37·4	37·56	..	..
D	Llangwllog (Trescawen)	Mrs. Pritchard-Rayner	5	1 0	239	42·2	42·81	246	179
D	Penmon (Tros-yr-afon)	Major H. W. Jones	8	2 0	60	..	36·41	214	151
D	Bodedern (Presaddfed)	Lt.-Col. W. A. Fox-Pitt	5	1 0	150	38·9	39·48	196	154
	Holyhead (Soldiers Point)	A. Pearson, Esq.	..	..	..	..	34·28	..	..
D	Holyhead (Salt Island) (+A)	The Meteorological Office	8	1 0	26	34·8	33·13	191	145
D	Llanerchymedd (Llwydiarth Esgb)	E. Thomas, Esq.	5	1 0	175	38·1	38·84	211	169
D	Penrhosllighwy School	T. Rowlands, Esq.	5	1 0	140	39·9	42·04	196	169
d	Lligwy *new g.*	Lord Boston	5	1 0	170	..	40·26	..	131
D	Amlwch (Dyffryn Adda)	Major T. Fanning Evans	5	1 3	178	36·3	37·08	202	150
	ISLE OF MAN. (Area, 227 sq. mi.)								
d	Port St. Mary (Beach Villa)	C. F. Butterworth, Esq.	5	3 0	40	..	26·08	..	..
	St. Marks (Ballahowin)	Rev. R. Jones	5	1 0	374	..	43·24	200	159
D	Douglas (Borough Cemetery)	The Borough Surveyor	8	1 0	284	41·2	46·05	210	157
D	Douglas (Clypse Res., Onchan)	T. C. Greenfield, Esq, C.E.	8	1 0	440	43·9	44·60	218	153
D	West Baldwin Reservoir *old g.*	T. C. Greenfield, Esq., C.E.	8	1 0	480	..	50·45	205	162
D	West Baldwin Reservoir *new g.*	T. C. Greenfield, Esq., C.E.	5	1 0	470	..	56·73	206	169
	Maughold Head	Com'rs. of N. Lighth's.	5	0 6	230	..	35·37	..	174
d	Ramsey (Town Hall)	The Town Surveyor	8	21 0	18	..	43·71	..	..
d	Ramsey (North Promenade)	The Town Surveyor	5	1 0	15	..	(42·70)	..	..
	CHANNEL ISLANDS. (Area, 76 sq. mi.)								
	JERSEY. 45 sq. mi.								
d	Pontac	Mrs. E. G. Barnes*	5	1 6	30	..	27·73	(189)	(124)
D	St. Saviours (Petit Menage)	G. T. Robin, Esq.	5	0 10	30	..	30·00	197	143
D	Grouville	L. de Carteret Malet, Esq.*	5	1 6	70	..	31·18	167	129
D	St. Helier (Harbour Office)	The Greffier	8	1 0	28	..	28·17	177	119
D	St. Helier (St. Louis O.) *new*	Rev. C. Burdo, S.J.	8	1 5	180	31·9	29·01	187	131
D	St. Brelade (La Sergenté)	W. Benest, Esq	5	1 4	194	..	28·04	174	126
D	St. Aubins (Belle Vue)	C. J. Sumner, Esq.	5	1 2	220	..	29·10	187	124
D	St. Lawrence (Little Grove)	R. E. B. Voisin, Esq.	5	1 0	60	..	29·85	174	129
D	Millbrook (St. Helier W.W.)	A. J. Jenkins, Esq., C. E.	5	0 11	53	..	30·16	167	126
D	St. Ouen's Manor	R. Malet de Carteret, Esq.	5	2 0	270	..	29·00	183	126
D	Trinity Rectory	Rev. S. J. Gruchy	5	1 0	375	..	28·91	197	136

§ Gauge over exposed. * *Per* A. J. Jenkins, Esq.

DIVISION XI—MONMOUTH, WALES, AND THE ISLANDS—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1932. Rainfall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
CHANNEL ISLANDS—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
GUERNSEY. 25 sq. mi..								
D St. Peter in the Wood (Hawthorns)	L. J. Nicolle, Esq.	5	1 0	100	..	20·56	177	120
D St. Martin's (Les Blanches)	B. T. Rowswell, Esq.	5	1 0	309	..	27·87	185	135
D St. Martin's (Hatnez)	A. A. Allain, Esq., C.E.	5	0 8	336	..	27·32	191	131
D Villiaze	A. A. Allain, Esq., C.E.	5	0 6	302	..	27·18	196	137
D St. Andrew (Vauxbelets Col.)	The Director	5	1 5	260	..	25·91	169	124
D St. Peter-in-the-Wood (Les Prês)	Miss M. A. Brock	5	1 0	250	..	26·96	165	125
D St. Peter Port (Grange Road)	H. Vere Miles, Esq.	5	1 0	173	33·2	30·91	197	138
D St. Peter Port (Market Street)	B. T. Rowswell, Esq.	5	52 8	99	..	29·22	186	132
D Castel (King's Mills)	A. A. Allain, Esq., C.E.	5	2 0	47	..	26·90	164	126
D Rohais (Colborne Villa)	T. J. Guilbert, Esq., C.E.	5	1 0	116	..	27·97	184	125
D Menheniot Vineries	Major H. Roper	5	1 1	97	..	30·27	188	133
SARK. 2 sq. mi.								
D Pointe Robert	B. T. Rowswell, Esq.	5	1 0	214	..	27·18	185	129
HERM. 1 sq. mi.								
D Herm	Sir Percival Perry	5	1 3	8	..	23·49	207	120
ALDERNEY, 3 sq. mi.								
D St. Anne's †	B. T. Rowswell, Esq.	5	1 0	235	..	30·05	174	130

† Previously at Gros Nez House.

SCOTLAND.

DIVISION XII—SOUTHERN COUNTIES.

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1932. Rainfall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
WIGTOWN. (Area, 488 sq. mi.)		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
1.—LOCH RYAN. 46 sq. mi.								
D Castle Kennedy (Lochinch)	Earl of Stair	8	1 0	85	..	44·44	210	166
2.—WESTERN GALLOWAY, 44 sq. mi.								
D Logan House	K. McDouall, Esq.	8	1 0	80	37·3	37·14	251	157
Corsewall	Com'rs. of N. Lighthouses	8	4 1	48	..	32·95	..	..
3.—LUCE BAY. 186 sq. mi.								
D Whithorn (Physgill)	F. B. Hopkins, Esq.	5	1 0	170	36·4	37·80	200	145
D Whithorn (Glasserton)	Adm. Johnston Stewart, C.B.	5	1 0	225	39·5	40·52	187	152
D Port William (Monreith)	L. R. Younger, Esq.	5	1 0	145	38·5	(39·26)	184	147
Stoneykirk (Ardwell House)	Sir E. Orde Stewart, Bt.	8	3 0	65	36·3	37·50	..	..
D New Luce (Public School)	J. Mackay, Esq.	5	1 0	200	46·6	45·95	205	156
4.—CREE & WIGTOWN BAY. 212 sq. mi.								
D Garlieston (Galloway Ho.)	P. H. Fletcher, Esq.	5	0 11	40	..	39·62	200	164
D Kirkcowan (Craighlaw)	Major W.M. F. Hamilton	5	1 0	300	48·3	48·97	229	162
D Newton Stewart (Little Barraer)	Brig.-Gen. G. M. P. Hawthorn, C.B.E., D.S.O.	5	1 0	180	..	46·51	217	157
D Newton Stewart (Duncree)	Maj.-Gen. Sir Keith Stewart K.C.B.	8	5 5	125	..	48·22	212	154
KIRKCUDBRIGHT. (Area, 902 sq. mi.)								
1.—DOON. 16 sq. mi.								
2.—CREE & WIGTOWN BAY. 222 sq. mi.								
d Borgue (Corseyard)	J. Douglas Brown, Esq.	5	1 0	50	39·8	(37·42)	..	144
3.—DEE. 377 sq. mi.								
D Mossdale (Hensol)	Mrs. Cuninghame	8	1 0	200	51·7	56·36	200	160
D Dalry (Glendarroch)	Miss M. Barbour	5	2 0	190	54·5	56·60	213	166
D Dalry (Garroch)	Arthur Young, Esq.	8	1 0	250	59·7	68·66	211	165
D Dalry (Forrest Lodge)	Sir John Wood, Bart.	5	1 0	500	63·2	80·75	186	172
D Carsphairn (Shiel)	S. Wilson, Esq.	5	1 0	825	73·9	83·58	228	196
D Carsphairn (Knockgray)	Miss Clark Kennedy	8	1 0	641	56·0	62·08	241	176
4.—URR & C. 196 sq. mi.								
Auchencairn (Torr House)	Thomas Ovens, Esq.	5	1 0	50	47·1	49·69	..	..
D Dalbeattie (Kirkennan)	Major Aymer Maxwell	5	0 9	30	46·2	54·96	212	167
D Dalbeattie (Drumstinchall)	Mrs. Hanbury	8	0 9	400	46·1	54·73	201	167
d Chipperkyle	Lt.-Col. J. A. Pollok Morris.	5	1 6	310	..	46·75	..	156
5.—NITH & C. 91 sq. mi.								
D Lochrutton (Dumfries W.W.)	J. Smellie, Esq.	5	1 0	273	44·0	53·40	220	156
D Carrachan	J. Hitchen, Esq.	5	1 0	..	..	47·83	193	150
DUMFRIES. (Area, 1,074 sq. mi.)								
1.—CLYDE—Right Bank Tributaries. 5 sq. mi.								
2.—URR. 6 sq. mi.								
3.—NITH & C. 421 sq. mi.								
D Ruthwell (Comlongon Castle)	Earl of Mansfield	5	1 0	74	..	36·85	180	143
d Ruthwell (Hetland)	Miss K. M. Buchanan	5	0 8	400	..	(43·82)	..	..
D Mouswald (Schoolhouse)	Jas. F. Young, Esq.	8	0 10	115	..	42·06	202	158
D Dumfries (Crichton Roy. Inst.)	C. C. Easterbrook, Esq., M.D.	5	1 0	140	36·8	40·22	186	140

DIVISION XII—SOUTHERN COUNTIES—(*con.*).

	STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1932. Rainfall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
	DUMFRIES—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
	3.—NITH & C.—(*con*).								
	Blackwood	T. W. Kennedy, Esq.	5	1 6	90	..	48·90	..	..
D	Moniaive (Glencrosh)	Miss Macmillan	5	1 1	400	..	61·01	204	158
D	Maxwelton House	Sir W. E. Laurie, Bt.	5	1 3	375	..	56·94	196	161
D	Durrisdeer (Drumlanrig)	R. A. S. Ritchie, Esq.	5	0 9	191	43·6	57·25	229	159
	4.—ANNAN. 367 sq. mi.								
D	Dalton (Whitecroft)	Lady A. Maitland-Heriot	5	0 11	240	..	44·99	220	165
D	Dalton (Kirkwood)	Captain J. Steel	5	1 0	250	..	50·06	256	167
M	Lockerbie (Thornbank)	W. Murdoch, Esq.	5	1 0	259	..	48·12	..	..
D	Gubhill School	The Head Mistress	5	1 0	560	..	56·63	196	153
D	Evan Water School	Mrs. Grossart	5	1 0	560	..	63·25	203	159
	5.—ESK. 275 sq. mi.								
D	Eaglesfield (Springkell Gdns.)	Mr. Charles George	5	1 0	300	..	43·07	188	156
D	Canonbie (Irvine House)	J. H. Milne Home, Esq.	5	0 9	200	..	51·69	194	155
D	Langholm (Drove Road)	Mrs. Jackson	5	0 9	270	..	57·50	178	154
	Langholm (Ewes)	Mrs. Lyall	5	1 0	445	53·4	58·57	..	..
D	Eskdalemuir Observatory..(+A)	The Meteorological Office	8	1 4	794	56·3	70·92	217	174
	ROXBURGH. (Area, 666 sq. mi.)								
	1.—NORTH TYNE. 6 sq. mi.								
	2.—TWEED LOWER—Right Bank Tributaries. 57 sq. mi.								
	3.—TWEED—Teviot & c. 431 sq. mi.								
D	Hawick (Wolfelee)	Mrs. Browne	5	1 0	537	37·6	38·48	206	161
D	Hawick (Branxholm Park)	C. W. Grieve, Esq.	5	0 6	457	33·4	38·29	188	156
d	Todshawhaugh	R. J. Usher, Esq.	5	1 0	450	..	39·96	..	..
d	Hawick (Dominican Priory)	Sister Mary Augustine	5	1 0	440	..	34·14	(192)	(142)
D	Denholm (Spital Tower)	Mrs. G. Leadbetter	5	0 9	410	32·7	29·32	202	147
D	Jedburgh (Jedneuk)	John S. Aikman, Esq.	5	1 0	271	26·3	24·19	178	130
D	Jedburgh (Crailing)	Major J. A. Paton	5	1 0	190	..	25·57	184	135
D	Ancrum (Monteviot)	Bertram Talbot, Esq.	5	1 0	210	29·8	25·78	190	133
	Linton (Clifton Park)	T. R. B. Elliot, Esq.	5	1 0	250	..	25·61	..	..
d	St. Boswells (The Fens)	J. J. Fairbairn, Esq.	5	1 6	260	28·0	24·71	..	120
D	St. Boswells (Monksford)	Lt.-Col. A. Mitchell	5	0 11	320	26·9	30·13	201	142
	4.—TWEED—Ettrick & c. 10 sq. mi.								
D	Melrose (Asylum) *gauge* A	T. C. Mitchell, Esq.	5	0 6	480	31·4	32·68	188	139
D	Melrose (Asylum) *gauge* B	T. C. Mitchell, Esq.	5	1 0	480	30·8	30·72	188	139
	5.—TWEED—Gala. 6 sq. mi.								
	6.—TWEED—Leader & c. 25 sq. mi.								
	7.—TWEED, LOWER—Left Bank Tributaries. 25 sq. mi.								
D	Kelso (Broomlands)	J. C. Scott, Esq.	5	1 0	193	26·0	24·97	200	132
	8.—ESK. 106 sq. mi.								
d	Newcastleton Forest	Forestry Commission	5	1 0	700	48·5	54·33	..	..

DIVISION XIII—SOUTH-EASTERN COUNTIES.

	SELKIRK. (Area, 268 sq. mi.)								
	1.—TWEED—Teviot & c. 34 sq. mi.								
D	Selkirk (Whitmuir Hall)	Miss M. E. Maxwell	5	1 6	800	32·5	35·38	231	151
	2.—TWEED—Ettrick & c. 192 sq. mi.								
D	Ettrick Manse	Rev. W. Addison	5	1 2	787	55·6	64·22	198	158
M	Edinburgh W. W. (Meggat Hd.) 1..	Messrs. Leslie & Reid, C.E.	8	1 3	1496	54·5	64·17	..	..

DIVISION XIII—SOUTH-EASTERN COUNTIES.—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1932. Rainfall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
SELKIRK—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
3.—TWEED, UPPER—Right Bank Tributaries. 17 sq. mi.								
4.—TWEED, UPPER—Left Bank Tributaries. 19 sq. mi.								
Galashiels (The Peel, Clovenfords)	W. R. Ovens, Esq.	5	1 0	450	35·5	34·46	..	..
5.—TWEED—Gala. 6 sq. mi.								
PEEBLES. (Area, 348 sq. mi.)								
1.—TWEED, UPPER—Right Bank Tributaries, 127 sq. mi.								
M Edin. WW (Ravenscraig)....3.	Messrs. Leslie & Reid, C.E..	5	1 3	2258	72·6	97·05	..	..
M Edin. WW (Gameshope Loch)..4.	Messrs. Leslie & Reid, C.E..	5	1 3	1860	70·6	83·56	..	..
M Edin. WW (Loch Craig Head) 2.	Messrs. Leslie & Reid, C.E..	5	1 0	2627	64·5	91·36	..	..
M Edin. WW (Gameshope Farm) 5.	Messrs. Leslie & Reid, C.E..	5	1 3	1538	69·4	84·58	..	..
M Edin. WW (Talla Linns Foot)..6.	Messrs. Leslie & Reid, C.E..	8	1 3	966	61·8	71·69	..	..
M Edin. WW (Quarter Hill).....7.	Messrs. Leslie & Reid, C.E..	8	1 3	1196	47·7	67·26	..	..
D Edin. WW (Victoria Lodge)...8.	Messrs. Leslie & Reid, C.E..	5	1 3	900	50·0	58·08	218	179
2.—TWEED, UPPER—Left Bank Tributaries. 192 sq. mi.								
D Stobo Castle.....	Mr. J. Finnie.....	5	1 0	594	34·9	41·28	208	153
D Peebles (Hydro.).....	R. Turner, Esq., O.B.E.....	5	0 9	700	..	40·89	264	181
D West Linton (Woodlea Cottage)...	Messrs. Leslie & Reid, C.E..	5	1 0	801	..	40·13	230	161
d West Linton (Cairnton).....	Dr. R. Graham Yooll.....	5	1 0	820	..	42·33	..	166
D West Linton (Baddingsgill Res.) ..	A. Simpson, Esq.....	5	1 0	1100	..	51·23	261	184
3.—ESK. 23 sq. mi.								
D Eddlestone (Portmore Res.).....	Messrs. Leslie & Reid, C.E..	11	1 0	1007	..	40·08	236	163
d Carlops (North Esk Res.).....	Mr. J. Gilmour.....	5	1 6	1150	..	40·77	(228)	(176)
4.—CLYDE—Right Bank Tributaries. 6 sq. mi.								
BERWICK. (Area, 457 sq. mi.)								
1.—TWEED—Gala. 6 sq. mi.								
2.—TWEED—Leader. 92 sq. mi.								
d Earlston (Cowdenknowes)	T. A. Mole, Esq.	5	1 2	300	..	(28·70)	(140)	(130)
M Lauder (Burncastle).....	J. G. S. Turnbull, Esq.....	5	1 0	900	30·2	30·63	..	..
M Earnscleugh Burn (Blythe Rig)...	J. G. S. Turnbull, Esq.....	5	1 0	1200	36·1	36·28	..	..
3.—TWEED, LOWER—Left Bank Tributaries. 115 sq. mi.								
Coldstream (Lochton).....	J. Aitchison, Esq.	5	1 0	151	25·9	25·20	..	..
D Swinton House (*Snowdon*)..(+A)..	Rev. A. E. Swinton.....	5	1 0	200	26·4	25·16	186	134
Whitsomehill	J. T. Craw, Esq.	5	0 8	245	26·0	21·97	..	..
4.—TWEED—Whiteadder. 164 sq. mi.								
D Marchmont House.....	Mr. Peter Ross.....	5	1 0	498	32·2	27·74	202	129
D Duns (Nisbet House Gdns.).....	Mr. W. Cowieson.....	5	1 0	290	26·8	28·70	206	140
D Duns (Oxendean).....	A. C. Fraser, Esq.....	8	0 7	600	..	29·96	205	140
D Duns Castle	F. S. Hay, Esq.	5	1 0	500	30·8	28·75	211	139
D Duns (Manderston).....	Mr. F. J. Marshall.....	5	1 6	356	30·7	29·12	212	143
5.—EAST COAST STREAMS. 80 sq. mi.								
St. Abb's Head.....	Comm'rs of N. Lighthouses.	8	5 6	212	23·6	26·55	..	..

DIVISION XIII—SOUTH-EASTERN COUNTIES—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Aver-age Rain-fall.	1932. Rain-fall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
EAST LOTHIAN (HADDINGTON). (Area, 267 sq. mi.)		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
1.—TWEED—Leader. 1 sq. mi.								
2.—TWEED—Whiteadder. 35 sq. mi.								
3.—EAST COAST STREAMS. 69 sq. mi.								
M Garvald (Donolly Reservoir)	A. Robertson, Esq., C.E.	5	1 0	550	32·8	29·10	..	..
M Garvald (Thorter Reservoir)	A. Robertson, Esq., C.E.	5	1 0	700	..	29·72	..	..
D Dunbar (Belhaven Hill)	W. Ingham, Esq.	..	..	..	24·2	22·26	166	118
D Dunbar (Public Park)†	Sir Wm. Keith, Esq., K.C.S.I., C.I.E.	5	1 0	75	..	21·49	177	115
4.—TYNE & C. 114 sq. mi.								
Lammermuir H. (West Hopes)	J. Ross, Esq., C.E.	5	1 0	736	34·4	34·28	..	..
Lammermuir H. (Stobshiel Res.) B.	J. Ross, Esq., C.E.	5	1 0	950	33·0	31·09	..	..
Lammermuir H. (Stobshiel Res.) A.	J. Ross, Esq., C.E.	5	1 0	998	28·1	26·83	..	..
Lammermuir H. (Lammerloch Res.)	J. Ross, Esq., C.E.	5	1 0	900	..	29·56	..	..
d Lammermuir H. (Stobshiel Fil.)	J. Ross, Esq., C.E.	5	1 0	650	..	22·99	..	111
5.—FIRTH OF FORTH. 48 sq. mi.								
d East Fortune Sanatorium	The Clerk of Works	5	1 4	101	23·5	22·37	..	110
d Dirleton	W. S. Curr, Esq., J.P.	5	1 6	149	..	20·97	..	110
D North Berwick Reservoir	A. Robertson, Esq., C.E.	5	1 0	150	25·4	22·63	167	125
D North Berwick (Hospital)	A. Robertson, Esq., C.E.	5	1 0	152	24·1	21·96	156	110
6.—INSULAR.								
Fidra	Com'rs. of N. Lighthouses	..	..	..	21·0	18·97	..	..
MIDLOTHIAN. (Area, 369 sq. mi.)								
1.—TWEED—Gala. 68 sq. mi.								
M Stow (Cragdale)	J. Pringle, Esq.	5	0 6	642	*33·3*	32·80	..	..
2.—TYNE. 28 sq. mi.								
D Oxenfoord Castle Gardens	Mr. D. M. Welsh	5	1 6	409	*27·6*	28·99	205	137
3.—FIRTH OF FORTH. 3 sq. mi.								
4.—ESK. 116 sq. mi.								
M Moorfoot Hills (Bowbate) *old g.*	Messrs. Leslie & Reid, C.E.	11	0 6	1260	*46·6*	43·81	..	..
M Moorfoot Hills (Bowbate) *new g.*	Messrs. Leslie & Reid, C.E.	5	1 0	1260	..	43·69	..	..
D Moorfoot Hills (Gladhouse Res.)	Messrs. Leslie & Reid, C.E.	5	0 8	915	35·3	37·67	232	162
D Moorfoot Hills (Rosebery)	Messrs. Leslie & Reid, C.E.	5	0 9	750	..	36·59	204	158
D Moorfoot Hills (Edgelaw)	Messrs. Leslie & Reid, C.E.	5	0 10	654	..	34·81	204	151
D Gorebridge	W. S. B. Brown, Esq.	5	1 0	560	*29·5*	29·89	211	141
M Pentland Hills (Harehill)	Messrs. Leslie & Reid, C.E.	11	1 7	1297	..	43·92	..	..
D Pentland Hills (Martyrs Cross)	Messrs. Leslie & Reid, C.E.	5	1 0	750	..	40·33	216	153
D Pentland Hills (Loganlea)	Messrs. Leslie & Reid, C.E.	5	1 0	811	..	42·99	209	163
D Pentland Hills (Glencorse Fil.)	Messrs. Leslie & Reid, C.E.	5	1 0	638	..	39·01	205	155
D Pentland Hills (Glen Cottage)	Messrs. Leslie & Reid, C.E.	5	1 2	739	..	41·22	211	158
d Newbattle (Public School)	W. Fowler, Esq.	5	1 0	300	*26·1*	27·19	..	..
5.—ALMOND & C. 153 sq. mi.								
D Pentland Hills (Crosswood)	Messrs. Leslie & Reid, C.E.	5	1 0	950	..	46·49	253	180
D Pentland Hills (Harperrig)	Messrs. Leslie & Reid, C.E.	5	1 0	900	..	44·60	235	177
D Pentland Hills (Morton)	Messrs. Leslie & Reid, C.E.	5	1 0	749	..	40·37	241	165
d West Calder (Addiewell)	Scottish Oils, Ltd.	12	21 0	620	35·7	43·05	..	..
D Pentland Hills (Boghall)	(+A). College of Agriculture	8	1 0	639	*31·4*	37·58	205	146
D Shothead (Balerno)	Inst. of Animal Genetics	5	1 0	..	..	40·46	205	149
D Pentland Hills (Harlaw Res.)	Messrs. Leslie & Reid, C.E.	5	1 0	800	..	34·63	199	156
M Pentland Hills (Bonally Res.)	Messrs. Leslie & Reid, C.E.	11	0 6	1112	..	43·95	..	..
D Pentland Hills (Clubbiedean Rs.)	Messrs. Leslie & Reid, C.E.	5	0 6	773	..	34·84	211	148
M Pentland Hills (Swanston)	Messrs. Leslie & Reid, C.E.	5	0 6	550	..	33·25	..	..
D Pentland Hills (Fairmilehead)	Messrs. Leslie & Reid, C.E.	5	1 0	590	..	33·26	194	136

† Previously called (St. Margarets.)

DIVISION XIII—SOUTH-EASTERN COUNTIES—(*con.*).

	STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1932. Rainfall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
	MIDLOTHIAN—(*con*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
	5.—ALMOND & C.—(*con.*)								
D	Liberton (Alnwick Hill)	Messrs. Leslie & Reid, C.E..	5	1 0	407	..	32·64	193	145
D	Colinton (Firhill Tank)	Messrs. Leslie & Reid, C.E..	5	0 6	412	..	31·40	218	142
D	Liberton (College Garden)	College of Agriculture	5	1 0	190	*27·2*	31·84	193	136
D	Edinburgh (Royal Observatory)	Prof. R. A. Sampson, F.R.S.	8	1 0	441	26·3	28·64	190	132
D	Edinburgh (Napier Road)	Mrs. H. G. Harrison	5	1 0	300	*26·0*	26·64	188	123
d	Edinburgh (Corstorphine)	J. Laughton, Esq.	5	0 8	180	..	28·81	(190)	(132)
D	Edinburgh (The Academy)	M. McC. Fairgrieve, Esq.	5	1 0	70	*25·3*	27·75	195	139
d	Edinburgh (Univ. Engin. Lab.)	Prof. Sir T. Hudson Beare..	5	1 0	227	26·0	28·44	..	..
d	Edinburgh (St. Roque)	Mr. H. B. Waugh	5	0 10	270	*26·6*	(29·37)	(207)	(136)
D	Edinburgh (City Observatory)	J. McDougal Field, Esq.	8	1 0	348	*24·1*	27·45	194	129
d	Edinburgh (Royal Botanic Gd.)	Prof. Sir W. Wright-Smith	5	0 7	74	*26·0*	27·08	..	129
D	Davidson's Mains (Broomfield)	J. I. Balfour-Melville, Esq.	5	0 10	42	*24·7*	26·17	171	133
	6.—CLYDE—Right Bank Tributaries. 1 sq. mi.								
	WEST LOTHIAN (LINLITHGOW). (Area, 120 sq. mi.)								
	1.—ALMOND & C. 60 sq. mi.								
M	Uphall	No. 7. Messrs. Leslie & Reid, C.E..	8	1 4	790	..	38·45	..	..
M	Uphall	No. 8. Messrs. Leslie & Reid, C.E..	8	1 4	577	..	38·09	..	..
M	Uphall	No. 6. Messrs. Leslie & Reid, C.E..	8	1 4	680	..	38·04	..	..
M	Uphall	No. 3. Messrs. Leslie & Reid, C.E..	8	1 2	711	..	37·97	..	..
d	Uphall	Scottish Oils, Ltd.	8	0 10	380	*31·2*	35·79	..	..
D	Uphall (Houstoun House)	J. W. Shairp, Esq.	5	1 0	420	..	36·49	223	145
	Winchburgh (Hopetown Oil Wks.)	Scottish Oils, Ltd.	8	2 2	327	..	34·49	..	..
	Dalmeny House	The Earl of Rosebery	5	1 0	50	..	28·30	..	..
	2.—FORTH—Right Bank Tributaries.—59 sq. mi.								
D	Bathgate (Filters)	No. 1. A. L. Reid, Esq.	5	0 9	640	*33·0*	37·98	184	144
M	Bathgate (Petershill Res.)	No. 2. A. L. Reid, Esq.	5	0 9	710	*30·3*	33·71	..	..
M	Bathgate (Ballencrieff R.)	No. 3. A. L. Reid, Esq.	5	0 9	792	*31·0*	34·55	..	..
M	Torpichon (Lochcote)	Wm. Beattie, Esq.	5	0 9	550	*33·2*	37·35	..	..
D	Uphall (Beecraigs)	Messrs. Leslie & Reid, C.E..	5	1 0	531	..	33·56	196	147
M	Carribber Reservoir	Wm. Beattie, Esq.	5	0 9	350	..	38·96	..	..
D	Linlithgow (Grange)	H. M. Cadell, Esq.	5	0 9	430	..	35·03	193	147
D	Linlithgow (Preston House)	Mr. C. Blair	5	1 0	380	..	36·88	193	149
d	Linlithgow Academy	The Rector	5	1 0	170	..	33·37	(182)	(143)
	3.—CLYDE.—Right Bank Tributaries. 1 sq. mi.								

DIVISION XIV—SOUTH-WESTERN COUNTIES.

LANARK. (Area, 881 sq. mi.)

1.—TWEED, UPPER—Left Bank Tributaries. 20 sq. mi.

2.—ALMOND. 14 sq. mi.

	3.—FORTH—Right Bank Tributaries. 9 sq. mi.								
D	Airdrie (Forrestburn Res.)	A. Simpson, Esq., C.E.	5	1 0	722	*36·6*	43·60	205	173
	4.—CLYDE—Right Bank Tributaries. 378 sq. mi.								
D	Crawford (Camps Res.)	Jas. McMillan, Esq.	11	0 10	969	..	52·73	195	167
D	Crawford (Camps Res.) *new g*	Jas. McMillan, Esq.	5	0 10	969	..	51·81	195	167
D	Crawford (Camps Res.) No. 3	Jas. McMillan, Esq.	11	0 10	968	..	52·81	195	167
M	Coulter Reservoir	No. 1. L. Costley, Esq., C.E.	11	1 0	1250	..	61·52	..	..
	Lamington (Cowgill Reservoir)	J. Chisholm, Esq., C.E.	5	1 0	1012	..	44·13	..	..
D	Biggar (Shieldhill)	Miss Dunlop	5	1 0	850	*32·7*	38·59	250	165
D	Lamington House	Rt. Hon. Lord Lamington..	5	1 0	730	*38·0*	44·63	217	162
	Carluke (Coldstream Reservoir)	L. Costley, Esq., C.E.	11	1 0	800	*36·2*	43·40	..	..
	Carluke	J. Barr, Esq.	5	0 5	640	..	36·76	..	..
	Wishaw (Kirk Road)	J. Y. Scott, Esq.	6	1 0	480	*32·1*	35·56	..	..
	Wishaw (Coronation Street)	A. Hinshelwood, Esq.	5	1 3	510	..	34·45	..	..
D	Bothwell (Mt. Pleasant)	A. Muir, Esq.	5	1 0	150	..	39·41	184	142
	Glasgow (Tollcross Park)	W. Besant, Esq.	5	0 6	85	*37·5*	42·21	212	151

DIVISION XIV—SOUTH-WESTERN COUNTIES.—(*cont.*).

	STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1932. Rainfall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
	LANARK—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
	4.—CLYDE—(*con.*).								
	Glasgow Green	W. Besant, Esq.	5	0 6	35	*36·8*	41·84	200	157
	Glasgow (Alexandra Park)	W. Besant, Esq.	5	0 6	141	*36·4*	40·63	196	142
D	Glasgow (Riddrie)	K. McKenzie Topping, Esq.	5	1 0	252	..	42·45	211	155
	Glasgow (Botanic Gardens)	W. Besant, Esq.	5	0 6	110	*35·5*	39·46	204	156
D	Glasgow University	Prof. J. R. Currie, M.D.	8	1 0	139	*35·4*	38·67	199	143
	Glasgow (Kelvingrove Park)	W. Besant, Esq.	5	0 6	48	*36·2*	43·13	171	150
	Glasgow (Victoria Park)	W. Besant, Esq.	5	0 6	30	*36·8*	38·80	190	158
	Glasgow (Ruchill Park)	W. Besant, Esq.	5	0 6	222	*36·1*	40·39	209	146
	Glasgow (Springburn Park)	W. Besant, Esq.	5	0 6	352	*38·0*	42·98	223	165
	Clarkston (Roughrigg Res.)	J. Chisholm, Esq., C.E.	5	1 0	664	..	42·96	..	..
d	Airdrie (Broomknoll Street)	J. Chisholm, Esq., C.E.	5	1 0	402	*35·1*	40·02	..	..
D	Gartcosh (Gartloch Hospital)	Mr. James McEwen	5	1 1	291	*38·0*	43·24	214	147
D	Caldercruix (Hillend Res.)	Mr. Boyd Drummond	5	3 6	620	37·3	44·78	177	158
D	Chryston School House	W. V. Forrest. Esq.	5	0 8	298	..	44·17	200	152
	5.—CLYDE—Left Bank Tributaries. 448 sq. mi.								
	Elvanfoot (Potrenick Burn)	L. Costley, Esq., C.E.	11	1 0	1018	*63·5*	78·30	..	..
	Elvanfoot (Peden Reservoir)	L. Costley, Esq., C.E.	11	1 0	1030	*62·0*	74·90	..	..
D	Douglas (Kilncroft)	The Earl of Home	8	1 1	696	*43·4*	55·56	215	168
	Strathaven (Glengavel Res.)	J. McMillan, Esq., C.E.	5	1 0	880	..	53·34	220	173
D	Strathaven (Glengavel Res.) *new site*	J. McMillan, Esq., C.E.	5	1 0	839	..	60·29	222	175
D	Coalburn	Auchlochan Colliery	5	1 3	735	..	45·86	196	163
D	Symington (Birkwood)	Col. D. E. Brand, D.S.O.	5	1 6	750	..	42·51	209	162
D	Strathaven (Dungavel)	A. K. Foulis, Esq.	5	1 0	798	..	56·86	217	168
D	Strathaven (Dunside Res.)	J. McMillan, Esq., C.E.	5	0 10	1010	..	61·32	225	186
D	Strathaven (Dunside Res.) *new site*	J. McMillan, Esq., C.E.	5	1 0	1002	..	64·24	225	186
D	Strathaven (Kype Res.)	W. H. Purdie, Esq., C.E.	5	1 0	941	..	60·57	196	163
W	Lesmahagow (Auchtyfardle)	Major T. E. Lander	5	1 0	578	*37·0*	41·83	..	..
D	Strathaven (East Overton Ho.)	H. Lee Dykes, Esq.	5	1 0	700	*43·8*	52·68	229	169
D	Stonehouse (Sanatorium)	W. A. Chapman, Esq.	5	0 7	526	..	44·62	194	153
D	Stonehouse (Glassford Filters)	J. McMillan, Esq., C.E.	5	0 9	775	..	50·67	243	174
D	Hamilton W.W. (Townhill)	The late W. H. Purdie, Esq., C.E.	5	1 0	430	35·6	43·51	195	152
D	Hamilton (Scott Street)	S. B. Becket, Esq.	5	1 6	260	*33·0*	41·33	181	135
D	Hamilton (Woodlea)	W. Fletcher, Esq.	5	1 4	192	..	40·16	197	139
D	Busby (Thorntonhall)	A. H. Bishop, Esq.	5	1 0	441	*38·4*	47·62	220	151
	Carmunnock (Carnbooth)	R. Robertson, Esq., C.E.	5	1 0	365	*39·3*	49·29	204	161
D	Cambuslang (Greenlees Filters)	J. McMillan, Esq., C.E.	5	1 0	322	*35·6*	43·57	196	144
D	Glasgow (Dumbreck)	W. Gillies, Esq., Jr., LL.B.	5	1 0	76	..	40·77	200	141
D	Glasgow (Maxwell Drive)	Rev. F. C. Newbery	5	1 0	60	..	43·20	175	156
	Glasgow (Bellahouston Park)	W. Besant, Esq.	5	0 6	160	*36·5*	45·85	210	155
	Glasgow (Elder Park)	W. Besant, Esq.	5	0 6	40	*37·4*	42·95	197	149
	6.—IRVINE. 2 sq. mi.								
	7.—AYR. 1 sq. mi.								
	8.—NITH. 2 sq. mi.								
	9.—ANNAN. 7 sq. mi.								
	AYR. (Area, 1,135 sq. mi.)								
	1.—CLYDE—Left Bank Tributaries. 7 sq. mi.								
D	Glengarnock (Chemical Works)	Messrs. Colvilles, Ltd.	8	15 0	105	54·4	54·90	206	157
	2.—FIRTH OF CLYDE. 60 sq. mi.								
D	Ardrossan (Burnfoot)	J. C. Duncan, Esq., C.E.	5	1 0	63	..	42·13	209	149
D	Stevenston (Greenhead Filters)	W. G. Guild, Esq.	5	1 0	186	41·6	45·20	190	157
	Ardrossan (Busbie Res.)	J. C. Duncan, Esq., C.E.	5	1 0	370	..	48·70	..	..
D	Seamill	A. McDonald, Esq.	5	1 0	38	..	38·58	206	140
D	West Kilbride School	Alex. M. Fleming, Esq.	5	1 0	200	..	40·60	203	139
	West Kilbride (Crosbie Res.)	W. Gray, Esq. C.E.	5	1 0	400	..	46·03	..	..
D	West Kilbride (Hunterston)	Lt.-Gen. Sir A. Hunter-Weston, K.C.B.	5	1 0	40	42·4	45·79	199	159
D	Fairlie (Southannan)	H. W. Rowe, Esq.	5	1 0	10	..	51·80	217	174
	Fairlie (Water Works)	W. Gray, Esq., C.E.	5	1 0	270	..	51·45	..	..
D	Largs (Stevenson Institute)	G. Arkieson, Esq.	5	1 0	20	..	48·39	209	170
D	Largs (Woodbank)	A. Simpson, Esq.	5	1 0	25	..	48·00	215	171
D	Largs (Noddsdale)	H. P. Ramage, Esq.	5	0 10	200	..	52·80	214	181

DIVISION XIV—SOUTH-WESTERN COUNTIES—(*con.*).

	STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1932. Rainfall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
	AYR—(*con.*).		*in.*	*ft in.*	*ft.*	*in.*	*in.*		
	2.—FIRTH OF CLYDE—(*con.*).								
D	Largs (Middleton Filters)	G. Arkieson, Esq.	5	1 0	230	..	50·43	212	177
D	Skelmorlie (West Park)	J. Wilkinson, Esq.	5	1 6	150	53·5	53·29	205	178
M	Shaws W.W. (Knockencorsan) *new site*	J. MacAlister, Esq., C.E.	5	1 0	1040	..	76·70	..	..
M	Shaws W.W. (Largs Road)	J. MacAlister, Esq., C.E.	5	1 0	910	*57·0*	75·80	..	..
	3.—IRVINE & C. 296 sq. mi.								
D	Ayr (Heathfield)	Medical Officer of Health	5	1 0	43	..	38·22	170	138
D	Prestwick	The Burgh Engineer	5	1 0	16	..	36·67	199	145
D	Monkton (Orangefield)	H. Carrick Webster, Esq.	5	1 0	30	..	39·58	204	138
D	Prestwick (Ladykirk Filters)	F. Pritty, Esq., C.E.	6	1 2	179	..	40·34	223	163
D	Troon	M. S. Brodie, Esq.	5	1 0	15	..	37·13	194	141
d	Symington	T. McMillan, Esq., M.A.	5	0 11	290	..	44·08	(210)	(162)
D	Hurlford (Carnell)	G. D. Findlay Hamilton, Esq.	5	1 6	250	..	42·48	198	156
D	Barassie (The Tower)	Mrs. Hutchison	5	1 0	12	..	36·92	215	149
	Troon (Collenan Reservoir)	M. S. Brodie, Esq., C.E.	5	1 0	203	..	41·97	..	..
D	Treesbank	Mr. T. Blacklock	5	1 0	150	..	47·75	211	164
D	Irvine (Gailes)	H. W. Aitken, Esq.	5	1 0	12	35·9	40·85	209	155
D	Cessnock Castle	J. Harling Turner, Esq.	5	1 0	360	..	52·33	199	173
D	Newmilns (Lanfine)	G. R. Shield, Esq.	5	1 6	500	..	56·62	226	173
	Kilmarnock (Craig House)	Col. W. Pollock Morris	5	1 0	70	..	42·82	..	..
D	Kilmarnock (The Mount)	J. L. Lawson, Esq.	5	0 11	95	..	46·70	256	164
D	Templetonburn	F. C Howie, Esq.	5	1 0	140	..	46·78	222	166
D	Darvel (Kirkland Park)	W. Dunbar, Esq., C.E.	5	1 0	350	..	57·13	217	172
	Raithhill	W. Dunbar, Esq., C.E.	5	1 0	640	..	60·44	..	..
D	Kilmarnock (Grange Sch.)	P. Muir, Esq.	5	1 0	130	..	45·20	214	163
D	Kilmarnock (Kay Park) (R)	W. Dunbar, Esq., C.E.	5	4 0	130	..	45·73	194	158
D	Kilmarnock (Dean Castle)	J. Middleton, Esq.	5	1 0	190	40·7	47·06	214	171
D	Irvine (Cunningham Home)	J. Gillespie, Esq.	5	1 0	24	..	44·05	214	154
D	Kilmarnock (North Craig Res.)	W. Dunbar, Esq., C.E.	5	1 0	319	41·2	51·76	219	181
D	Montgreenan Gardens	A. Dow, Esq.	5	1 3	180	..	50·25	205	167
D	Fenwick (Whiteliehill)	D. C. Dick, Esq.	5	1 0	915	..	63·07	218	178
D	Fenwick (Hareshaw Lodge)	E. Richmond Paton, Esq.	5	0 3	600	48·5	58·78	194	174
	Croilburn	W. Dunbar, Esq., C.E.	5	1 0	725	..	60·29	..	..
D	Fenwick (Amlaird Filters)	W. Dunbar, Esq., C.E.	5	1 0	590	43·3	55·18	225	178
	Craigendunton Reservoir	W. Dunbar, Esq., C.E.	5	1 0	805	46·4	61·03	..	..
	Loch Goin Reservoir	W. Dunbar, Esq., C.E.	5	1 0	865	49·4	65·15	..	..
D	Blair Gardens	W. Dunbar, Esq., C.E.	5	1 0	155	..	55·02	211	173
	Moor Farm	W. Dunbar, Esq., C.E.	5	1 0	810	..	63·92	..	..
D	Stewarton Filters	C. M. L. Bodie, Esq.	5	1 0	515	..	53·49	205	169
D	Kirkland (Dunlop)	R. Clement, Esq.	5	1 0	400	..	58·74	204	173
D	Dalry (Munnoch Reservoir)	W. G. Guild, Esq.	5	1 0	325	47·9	55·13	228	172
D	Dalry (Caaf Reservoir)	W. G. Guild, Esq.	5	1 3	515	53·2	61·70	229	185
D	Dalry (Birkheadsteel)	W. G. Guild, Esq.	5	1 0	520	..	65·13	229	194
D	Dalry W.W. (Filters)	W. Gray, Esq., C.E.	5	1 0	320	46·5	56·38	223	172
D	Dalry (Templand)	A. Shanks, Esq.	5	1 0	154	..	55·72	214	168
	Dalry W.W. (Thirdpart)	W. Gray, Esq., C.E.	5	1 0	560	52·0	55·89	..	..
	Dalry (Camphill Reservoir)	James Lee, Esq., C.E.	5	1 0	611	..	72·02	..	..
D	Beith (Filter Station)	W. Gray, Esq., C.E.	5	1 0	412	..	61·09	229	179
D	Kilbirnie (Hole House Filters)	W. Gray, Esq., C.E.	5	1 0	377	..	71·31	238	184
M	Kilbirnie (Pundeavon Res.)	W. Gray, Esq., C.E.	11	1 0	898	..	87·51	••	••
	4.—AYR. 222 sq. mi.								
D	Ayr Cemetery	J. Young, Esq., C.E.	5	1 0	40	34·8	37·87	174	141
D	Annbank House	Jas. Dickie, Esq.	5	1 0	240	..	43·35	219	158
D	Auchincruive	W. Scotland Agric. Coll.	8	1 0	89	..	40·56	204	145
D	Catrine	Messrs. J. Findlay & Co.	6	1 0	300	..	46·52	206	160
D	Montgomerie	T. Allan Arthur, Esq.	5	1 0	340	..	45·95	208	156
D	Muirkirk (Kaimshill)	Dugald Baird, Esq.	5	1 6	750	43·4	55·14	224	176
	Sorn (Blackside Water Tank)	W. Gray, Esq., C.E.	5	1 0	840	..	53·64	..	..
	5.—DOON. 119 sq. mi.								
W	Loch Finlas	J. Young, Esq., C.E.	5	1 0	849	55·1	53·14	..	..
D	Patna (Kerse Filters)	W. Gray, Esq., C.E.	11	1 0	743	44·4	46·46	191	155
	Maybole (Knockdon)	late Thomas Cross, Esq.	5	1 6	352	..	(49·87)	..	..
D	Maybole (Otterden)	Robert Cross, Esq.	5	1 3	314	..	46·07	203	158
D	Dalrymple (Knockjarder W.W.)	J. Young, Esq., C.E.	5	1 6	287	..	42·92	208	152
D	Ayr (Doonholm)	Col. N. Kennedy, D.S.O.	5	1 0	90	38·8	44·69	223	168
D	Alloway (Doonside)	J. Ferrier, Esq.	5	1 5	99	..	45·73	242	169

DIVISION XIV—SOUTH-WESTERN COUNTIES—(*con.*).

	STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1932. Rainfall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
	AYR—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
	6.—CULZEAN BAY & C. 32 sq. mi.								
d	Turnberry Hotel	The Resident Manager	5	1 0	96	..	40·13	(171)	(134)
D	Maybole (Culzean Castle Gdns)	Mr. W. J. Orr	8	1 3	138	36·4	46·02	191	147
	7.—GIRVAN. 105 sq. mi.								
	Girvan (Glendoune Gardens)	Mr. J. Simons	5	1 0	100	41·8	49·54	198	..
	Loch Bradan	M. S. Brodie, Esq., C.E.	11	0 10	990	57·6	63·73	..	..
	8.—STINCHAR & C. 155 sq. mi.								
d	Glenapp Castle Gardens	Mr. A. W. Taylor	5	0 7	100	..	52·50	..	158
d	Ballantrae (Windyknowe)	Capt. J. M. Borland, C.B.,D.S.O.	5	1 0	62	..	42·46	(196)	(153)
D	Colmonell (Knockdolian)	Capt. McConnell	5	1 0	170	44·8	47·79	203	162
D	Pinwherry (Alticane)	D. I. W. Gray, Esq.	5	1 0	200	51·4	55·97	225	163
D	Girvan (Pinmore)	Major E. C. Maxwell	5	0 5	207	49·8	51·39	229	165
D	Barr (Alton Albany)	Lt.-Cdr. G. Hughes-Onslow, D.S.C.	5	1 6	330	..	53·82	218	175
	9.—LOCH RYAN. 12 sq. mi.								
	10.—LUCE BAY. 15 sq. mi.								
d	Ballantrae (Lagafater Lodge)	Cedric R. Boult, Esq.	5	0 11	792	64·8	62·54	..	174
	11.—CREE. 40 sq. mi.								
	12.—DEE. 9 sq. mi.								
	13.—NITH. 62 sq. mi.								
	Afton Res. (Afton Water)	W. Gray, Esq., C.E.	5	1 0	1525	..	97·14	..	..
	Afton Res. (Alwhat Burn)	W. Gray, Esq., C.E.	5	1 0	1435	..	96·94	..	..
	Afton Res. (Montraw Burn)	W. Gray, Esq., C.E.	5	1 0	1554	..	86·83	..	..
	Afton Res. (Montraw)	W. Gray, Esq., C.E.	5	1 0	1372	..	90·17	..	..
	Afton Res. (Green Burn)	W. Gray, Esq., C.E.	5	1 0	1415	..	104·23	..	..
D	Afton Res. (Filters)	W. Gray, Esq., C.E.	5	1 0	1328	..	96·51	231	203
D	Glen Afton (Ayr Sanatorium)	Dr. E. E. Prest	5	1 0	850	53·2	62·77	237	181
D	New Cumnock (Power Stn.)	New Cumnock Collieries, Ltd.	5	1 0	764	..	55·99	210	164
	14.—INSULAR. 1 sq. mi.								
	Ailsa Craig	Com'rs. of N. Lighthouses	5	1 0	35	27·0	36·97	..	..
	RENFREW. (Area, 241 sq. mi.)								
	1.—CLYDE—Right Bank Tributaries. 3 sq. mi.								
	2.—CLYDE—Left Bank Tributaries. 194 sq. mi.								
	Gorbals Dist.W.W. (Nether Cairn)	G. Henshilwood, Esq., C.E.	12	0 5	700	*57·2*	59·20	..	..
	Gorbals Dist.W.W. (Middleton)	G. Henshilwood, Esq., C.E.	12	0 5	550	*55·8*	52·65	..	..
	Gorbals Dist.W.W. (Ryat Lynn)	G. Henshilwood, Esq., C.E.	8	0 5	310	*49·0*	53·42	..	..
	Gorbals Dist.W.W.(Waulk Glen)	G. Henshilwood, Esq., C.E.	12	0 5	280	47·2	53·40	..	..
	Paisley W. W. (Muirhead)	James Lee, Esq., C.E.	12	1 0	482	..	63·92	..	..
	Paisley W. W. (Springside)	James Lee, Esq., C.E.	12	1 0	532	..	70·55	..	..
	Paisley W.W.(Back Thornlymuir)	James Lee, Esq., C.E.	12	1 0	646	50·9	62·74	..	..
	Paisley W.W. (Stanely)	James Lee, Esq., C.E.	12	1 0	190	..	45·20	..	..
D	Howwood (Midton House)	A. D. McNab, Esq.	5	1 3	232	..	58·96	179	162
	Pollokshaws (Rouken Glen)	W. Besant, Esq.	5	0 6	156	..	50·06	208	157
D	Pollokshaws (Pollok House)	Sir J. Stirling Maxwell, Bt.	5	1 0	50	..	42·68	226	155
D	Glasgow (Queens Park)	W. Besant, Esq.	8	0 9	145	36·1	43·98	228	145
	Glasgow (Maxwell Park)	W. Besant, Esq.	5	0 6	69	..	40·29	201	152
D	Kilbarchan (Milliken Park)	M. Douglas Anderson, Esq.	5	1 6	75	..	49·66	186	163
D	Paisley (The Coats Observatory)	Observatory Committee	8	1 0	106	40·7	43·88	204	143
D	Houston Manse	Rev. George Muir	5	1 0	103	..	54·21	198	152
§	Shaws W.W. (Duchal Moor) *new g*	J. MacAlister, Esq. C.E.,	5	1 0	1150	..	82·60	..	..
§	Shaws W.W. (Creuch Hill) *new g*	J. MacAlister, Esq., C.E.	5	1 0	1350	..	80·90	..	..
M	Shaws W.W. (Green Water)	J. MacAlister, Esq., C.E.	5	1 0	788	*68·1*	74·00	..	..
D	Renfrew Aerodrome (+A)	The Meteorological Office	8	1 0	33	37·0	42·00	207	147
D	Kilmacolm W.W.	James Grier, Esq.	5	1 0	600	..	77·25	223	177
D	Kilmacolm Village	James Grier, Esq.	5	1 0	300	..	60·96	219	161
	Bishopton (Dargavel)	Cap . A. Hall-Maxwell	5	1 0	33	..	46·54	..	..
D	Shaws W.W. (Gryfe Reservoir)	J. MacAlister, Esq., C.E.	5	1 0	640	*65·1*	71·86	213	175
D	Shaws W.W. (Mansfield)	J. MacAlister, Esq., C.E.	5	1 0	573	*64·5*	70·33	215	174
M	Shaws W.W. (Darndaff Moor)	J. MacAlister, Esq., C.E.	5	1 0	850	*65·7*	70·80	..	..

DIVISION XIV—SOUTH-WESTERN COUNTIES—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Aver-age Rain-fall.	1932. Rain-fall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
RENFREW—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
3.—FIRTH OF CLYDE. 34 sq. mi.								
w Shaws W.W. (Kelly Dam)	J. MacAlister, Esq., C.E.	5	1 0	640	63·6	62·80	..	..
Inverkip (Daff Burn Reservoir)	Alex. Duthie, Esq.	8	1 0	506	..	62·50	..	..
w Douglichill Filters (Pt. Glas. W.W.)	James Murray, Esq., C.E.	8	1 6	540	..	59·33	..	..
w Parkhill Filters (Pt Glas. W.W.)	James Murray, Esq., C.E.	8	1 6	275	..	55·73	..	..
D§Shaws W.W. (Compens. Res.)*new g*	J. MacAlister, Esq., C.E.	5	1 0	600	..	69·31	225	178
D Shaws W.W. (Loch Thom)	J. MacAlister, Esq., C.E.	5	1 0	643	65·4	71·84	230	181
w Shaws W.W. (Shielhill)	J. MacAlister, Esq., C.E.	5	1 0	962	*65·7*	75·20	..	..
D Shaws W.W. (New Yett's Dam)	J. MacAlister, Esq., C.E.	5	1 0	800	*65·0*	64·60	227	177
w Shaws W.W. (Spango Burn)	J. MacAlister, Esq., C.E.	5	1 0	757	*65·1*	68·90	..	..
D Shaws W.W. (Hole Glen)	J. MacAlister, Esq., C.E.	5	1 0	603	*62·2*	66·33	223	174
D Greenock (Prospect Hill) (+A)	J. MacAlister, Esq., C.E.	5	1 0	199	61·6	62·21	206	157
D Gourock (Coves Reservoir)	Alex. Duthie, Esq.	5	1 0	221	..	59·39	205	168
4.—IRVINE. 10 sq. mi.								

DIVISION XV—WEST MIDLAND COUNTIES.

DUMBARTON. (Area, 270 sq. mi.)

1.—FORTH—Right Bank Tributaries. 10 sq. mi.								
2.—FIRTH OF CLYDE & COWAL. 52 sq. mi.								
D Cardross (Kilmahew)	Claud A. Allan, Esq.	5	1 0	130	*44·7*	50·50	212	169
D Helensburgh (Ferniegair)	J. N. Stirling, Esq., C.E.	5	1 0	21	49·7	52·15	208	169
D Helensburgh (Valve House)	J. N. Stirling, Esq., C.E.	8	1 0	293	*52·7*	55·16	226	180
D Rosneath Castle Gardens	Mr. J. Dawson	5	0 4	33	*50·7*	52·30	217	170
D Garelochhead (Ardarroch Gdns)	F. A. Bush, Esq.	5	1 0	100	..	78·40	224	197
D Arrochar (Benreoch Tighness)	Mrs. D. Little	5	1 0	50	..	100·30	227	200
D Arrochar (Braeside)	J. Lindsay, Esq.	5	1 0	40	*74·6*	89·64	219	200
3.—CLYDE—Leven. 149 sq. mi.								
D Renton (Carman Filters)	W. Buchanan, Esq.	8	4 0	292	*47·6*	52·07	206	164
Loch Lomond Park	W. Besant, Esq.	5	1 0	156	*49·5*	56·19	225	..
M Glen Finlas Reservoir.....No. 1	George Beaton, Esq.	5	1 1	782	*69·1*	76·64	..	..
M Glen Finlas Reservoir.....No. 2	George Beaton, Esq.	5	1 6	1194	*67·0*	77·11	..	..
M Glen Finlas Reservoir.....No. 3	George Beaton, Esq.	5	1 5	1627	*75·2*	82·56	..	..
M Glen Finlas Reservoir.....No. 4	George Beaton, Esq.	5	2 0	2040	*73·6*	81·00	..	..
M Glen Finlas Reservoir.....No. 5	George Beaton, Esq.	5	0 10	1635	*64·6*	68·62	..	..
M Glen Finlas Reservoir.....No. 6	George Beaton, Esq.	5	1 0	1172	*62·8*	66·57	..	..
4.—CLYDE—Right Bank Tributaries. 59 sq. mi.								
D Drumchapel (Wasdale)	F. C. Thomson, Esq.	5	1 0	49	*38·5*	40·49	225	156
w Bearsden (Glengarnock)	A. Lithgow, Esq.	8	1 0	132	*40·4*	45·07	..	..
D Gartshore Gardens	Mr. Hugh Black	5	1 0	261	..	45·01	218	164
D Milngavie (Dougalston)	Mr. J. Hamilton	5	1 0	150	*43·7*	47·77	210	163
D Duntocher (Cochno Filters)	E. T. Collins, Esq., C.E.	5	1 0	400	*43·7*	44·08	174	155
Kilpatrick Hills (Greenside Res.)	E. T. Collins, Esq., C.E.	5	1 0	876	*50·8*	51·13	..	..
Kilpatrick Hills (Loch Cochno)	E. T. Collins, Esq., C.E.	5	1 0	909	*52·4*	52·05	..	..
Kilpatrick Hills (Jaw Reservoir)	E. T. Collins, Esq., C.E.	5	1 0	912	*52·7*	55·52	..	..

STIRLING. (Area, 463 sq. mi.)

1.—FORTH—Right Bank Tributaries. 263 sq. mi.								
D Polmont (Vellore)	R. M. W. Brown, Esq.	5	1 0	320	*36·3*	37·62	192	151
D Polmont (Carhowden)	T. B. G. Harvey, Esq.	5	1 0	110	..	37·08	191	146
d Falkirk (Inglewood, Laurieston)	Miss H. S. D. Ballantine	5	1 0	133	*36·6*	38·06	(175)	(151)
D Falkirk (Westbank)....*Garden*	A. Nimmo, Esq.	5	1 0	75	*37·6*	37·65	185	149
D Falkirk (Westbank) ....*Lawn*	A. Nimmo, Esq.	5	1 0	105	*36·5*	35·40	185	146
d Falkirk (Arnotdale)	W. Gibson, Esq.	5	1 0	105	*37·4*	36·65	..	..
Falkirk (Kerse)	George Smith, Esq.	5	1 0	18	31·9	34·41	..	..
Falkirk (Kerse) *new g*	George Smith, Esq.	5	1 0	18	..	34·98	..	..
d Grangemouth (Burgh Stables)	J. C. Wallace, Esq., C.E.	5	1 0	15	*31·8*	31·72	..	..
M Little Denny Reservoir	Stirling & Falkirk W.Bd.	8	1 0	326	*43·1*	45·81	..	..
Little Denny Reservoir *new g.*	Stirling & Falkirk W.Bd.		..	..	..	(45·84)	..	..
M Little Denny Filters	Stirling & Falkirk W.Bd.	8	1 0	243	*42·2*	46·93	..	..
M Kilsyth (Faughlin Res.)	Stirling & Falkirk W.Bd.	8	1 0	707	*55·2*	58·21	..	..
Denny (Buckieburn Reservoir)	Stirling & Falkirk W.Bd.	8	1 0	825	*45·9*	47·97	..	..
Denny (Buckieburn Filters)	Stirling & Falkirk W.Bd.	8	1 0	760	*43·3*	41·46	..	..

§ Turf wall round gauge.

DIVISION XV—WEST MIDLAND COUNTIES—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1932. Rainfall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
STIRLING—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
1.—FORTH—Right Bank Tributaries—(*con.*).								
M Earlsburn Reservoir	Stirling & Falkirk W.Bd.	8	1 0	1202	*58·0*	62·71	..	..
D Stirling (North Third Res.)	J. C. Wallace, Esq., C.E.	8	1 0	560	*44·8*	57·40	227	166
D Stirling (Touch Res.) .... No. 3	A. H. Goudie, Esq.	8	1 0	759	*47·7*	53·28	213	164
D Stirling (Touch Res.) .... No. 2	A. H. Goudie, Esq.	8	1 0	707	*47·1*	50·31	213	161
D Stirling (Touch Res.) .... No. 1	A. H. Goudie, Esq.	8	1 0	455	*47·6*	53·59	213	163
d Polmaise Castle Gardens	Mr. J. McAndie	5	1 1	220	..	46·97	..	148
w Touch Gardens	Mr .T. Davidson	5	1 0	90	..	49·32	..	..
Endrick Lodge	W. M. Wallace, Esq.	5	1 0	136	..	43·67	..	..
d Stirling (Sauchie House)	J. Fyfe, Esq., C.S.I.	5	1 0	151	*36·5*	40·11	..	139
Stirling (Westerlands)	J. W. Drummond, Esq.	5	1 0	110	*36·9*	39·78	..	..
D Stirling (Craigforth)	A. J. Couper, Esq.	5	1 0	32	*39·1*	41·74	241	143
D Bucklyvie (Gartinstarry)	C. Stirling, Esq.	5	1 0	150	..	47·82	194	145
D Gargunnock House	C. Stirling, Esq.	5	1 0	85	*43·4*	47·10	195	144
D Kippen (Arngomery)	Mr. A. Leitch	5	4 6	150	*47·5*	46·54	215	151
Micklewood	J. McNaughton, Esq.	5	1 0	35	..	43·87	..	..
w Duchray Valley (Ben Lomond)	G. Henshilwood, Esq., C.E.	8	0 6	1500	*88·0*	92·50	..	..
w Duchray Valley (Glen Dhu)	G. Henshilwood, Esq., C.E.	8	1 0	500	*83·8*	87·65	..	..
w Duchray Valley (Comer)	G. Henshilwood, Esq., C.E.	8	1 0	600	*88·0*	92·00	..	..
w Duchray Valley (Achaidh Burn)	G. Henshilwood, Esq., C.E.	8	1 0	1200	*97·4*	102·90	..	..
w Duchray Val. (Hd. of Main Stream)	G. Henshilwood, Esq., C.E.	8	1 0	950	*92·8*	94·35	..	..
2.—FORTH—Teith. 5 sq. mi.								
d Stronachlachar (Invergyle)	G. Henshilwood, Esq., C.E.	8	1 0	376	*82·4*	93·20	214	..
3.—FORTH—Left Bank Tributaries. 15 sq. mi.								
D Bridge of Allan (The Lea)	Mr. W. Watt	5	0 8	100	*35·9*	35·16	227	154
D Bridge of Allan (Langlands)	W. H. Gillespie, Esq.	5	1 0	45	..	37·67	207	142
4.—CLYDE—Leven. 128 sq. mi.								
Strathblane (Blanefield)	G. Henshilwood, Esq. C.E.	8	1 0	250	*50·5*	56·35	..	..
D Killearn (Achnagowan)	Miss A. L. Guthrie-Smith	5	1 0	332	*56·1*	52·22	215	153
w Loch Arklet (Corriehichon)	G. Henshilwood, Esq., C.E.	8	0 6	870	*89·3*	91·20	..	..
w Loch Arklet (Corriearklet)	G. Henshilwood, Esq., C.E.	8	0 6	950	*90·2*	96·90	..	..
5.—CLYDE—Right Bank Tributaries. 52 sq. mi.								
Strathblane (Mugdock Res.)	G. Henshilwood, Esq., C.E.	8	0 6	320	46·2	52·95	..	..
D Milngavie (Eastertoun)	Major R. M. Ker	5	1 0	450	*45·0*	51·15	206	162
Kilpatrick H. (Burncrooks Res.)	E. T. Collins, Esq.	5	1 0	835	*49·5*	55·80	..	..
D Kilsyth (Innsbridge)	J. I. Little, Esq.	5	4 6	197	*47·3*	54·56	266	179
D Lennoxtown	W. R. Patterson, Esq.	5	1 0	200	..	57·31	213	174
BUTE. (Area, 218 sq. mi.)								
1.—ISLE OF BUTE. 50 sq. mi.								
D Rothesay (Ardencraig)	Sir John Reid	5	1 0	200	49·0	58·65	236	214
D Port Bannatyne (Ettrickdale)	Lt.-Col.M.R.Gray Buchanan	5	1 0	160	..	53·87	243	202
2.—CUMBRAES. 4 sq. mi.								
D Millport (St. Andrew's Home)	Dr. J. H. Paul	5	0 9	12	..	46·10	204	155
D Millport (Marine Biog. Stat.)	R. Elmhirst, Esq.	5	1 0	16	..	45·35	199	163
3—ARRAN. 164 sq. mi.								
Holy Island (Pillar Rock)	Com'rs. of N. Lighthouses	5	0 11	68	48·6	48·54	188	153
D Dougarie Lodge	David Reside, Esq.	5	1 0	10	46·0	44·14	213	163
D Corrie Manse	Rev. James Brown	5	1 0	20	..	71·82	210	175
ARGYLL. (Area, 3,181 sq. mi.)								
1.—TAY—Tummel. 36 sq. mi.								
2.—SOUND OF ARISAIG, SOUND OF MULL & C. 317 sq. mi.								
D Morvern (Ardtornish)	O. H. Smith, Esq.	5	1 0	48	*83·3*	80·11	198	185
D Morvern (Drimnin)	Mrs. Gordon	5	1 0	225	*62·7*	58·75	229	190
D Loch Sunart (Glenborrodale)	Exors. of the late K. M. Clark, Esq.	5	1 0	30	69·0	68·17	231	206
D Acharacle (Shielbridge)	Exors. of the late K. M. Clark, Esq.	8	3 0	51	*68·2*	64·90	215	201
d Loch Shiel (Polloch House)	Forestry Commission	5	0 9	30	*83·5*	103·35	..	179
3.—LOCH LINNHE—Right Bank Tributaries. 139 sq. mi.								
D Morvern (Kingairloch)	Mrs. G. H. Strutt	5	1 0	40	*98·2*	110·87	225	201
Corran Lighthouse	Com'rs. of N. Lighthouses	5	1 0	13	81·0	96·96	217	198
D Ardgour House	Maclean of Ardgour	5	0 10	60	*90·0*	116·52	256	222

DIVISION XV—WEST MIDLAND COUNTIES—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1932. Rainfall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
ARGYLL—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
4.—LOCH LINNHE.—Left Bank Tributaries. 165 sq. mi.								
D Duror (Achara)	W. D. Stewart, Esq.	5	1 2	45	70·7	84·24	229	196
d Barcaldine	Forestry Commission	5	1 0	50	65·9	75·52	(224)	(190)
d Carnach	Resident Engineer	5	1 0	27	..	103·26	(239)	(198)
D Glencoe Gardens	Mr. J. B. Crichton	8	1 0	85	..	90·89	234	197
Glenleven (Blackwater House).4..	British Aluminium Co. Ltd..	8	1 0	1069	80·8	104·30	..	..
D Glenleven (Blackwater Dam,S.) 2..	British Aluminium Co. Ltd..	8	1 0	1072	84·0	109·23	254	210
d Glenleven (Kinlochleven) .....1..	British Aluminium Co. Ltd..	8	1 0	140	86·4	106·77	(215)	(198)
5.—LOCH ETIVE. 197 sq. mi.								
D Glen Etive	W. D. Fordyce, Esq.	..	1 0	200	94·0	114·93	228	203
6.—LOCH ETIVE—Loch Awe. 319 sq. mi.								
d Bridge of Orchy (Inveroran)	Resident Engineer	5	1 0	580	*83·5*	86·98	196	179
7.—FIRTH OF LORNE. 112 sq. mi.								
d Kilmelfort (Arduaine)	Mrs. Campbell of Arduaine .	5	0 10	23	*57·6*	72·80	..	..
D Kilmelfort (Ardmaddy C.).The late Marchioness of Breadalbane		5	1 0	70	..	65·76	215	180
W Oban (Gleann-a-Bhearraidh Res.)	D. Galloway, Esq.	8	1 6	400	*57·5*	64·65	..	..
D Oban	D. Galloway, Esq.	8	1 0	21	53·0	56·42	211	170
8.—SOUND OF JURA. 163 sq. mi.								
D Lochgilphead (Poltalloch)	Mr. D. S. Melville	5	1 6	135	52·7	58·52	227	199
9.—KINTYRE, WEST. 146 sq. mi.								
Mull of Kintyre	Com'r. of N. Lighthouses...	5	1 0	270	41·1	36·22	..	..
D Largie Castle	Mrs. Moreton Macdonald...	5	1 1	160	*48·4*	40·23	207	160
10.—KINTYRE, EAST. 177 sq. mi.								
D Campbeltown (South Park)	J. A. Gardiner, Esq.	8	0 10	20	*50·6*	48·36	237	179
Campbeltown (Devaar)	Com'rs. of N. Lighthouses ..	5	1 9	76	45·1	41·22	..	..
d Carradale (Torrisdale Castle)	Major W. Macalister Hall...	5	1 0	84	*62·6*	62·98	(223)	(177)
D Skipness (Claonaig)	R. F. Graham, Esq.	5	1 0	160	..	51·31	212	171
11.—LOCH FYNE. 264 sq. mi.								
d Ardlamont (Kilbride)	J. W. Turnbull, Esq.	5	1 0	110	*49·0*	44·72	..	..
Otter Ferry (Ballimore)	Lt.-Col. J. MacRae-Gilstrap.	5	0 10	70	*52·1*	55·53	..	..
D Ardrishaig (Canal Office)	E. A. Bly, Esq., C.E.	5	1 0	48	*67·9*	69·86	221	195
D Loch Fyne (Castle Lachlan)	The Maclachlan of Maclachlan	5	1 0	25	*65·3*	62·87	221	181
D Crarae Lodge	Capt. G. I. Campbell	5	1 0	20	*68·2*	79·91	228	198
D Strachur Park	Lady G. Campbell	5	1 8	25	*66·7*	76·03	228	201
D Brenchoillie	A. R. Page, Esq.	5	1 0	240	..	89·21	222	210
D Inveraray Castle Gardens	A. R. Page, Esq.	5	1 0	40	77·2	91·55	190	186
d Ardkinglas	J. R. Taylor, Esq.	8	1 6	37	*70·8*	(82·98)	(227)	(198)
12.—FIRTH OF CLYDE & COWAL. 242 sq. mi.								
D Toward (Knockdon Gardens)	Sir Norman Lamont, Bt....	5	1 6	101	*59·7*	58·98	231	185
D Toward (Inverchaolain)	Sir Norman Lamont, Bt....	5	1 0	..	*67·9*	69·28	231	198
D Ardnadam (Hafton Ho.)	R. Allan, Esq.	5	1 0	73	*76·5*	77·75	216	188
D Loch Eck (Benmore)	H. G. Younger, Esq.	5	1 3	40	*86·6*	96·30	238	197
D Glenbranter	Forestry Commission	5	1 0	188	*88·2*	94·37	219	194
Lochgoilhead (Ardgoil)	W. Besant, Esq.	5	0 6	20	*86·3*	96·84	234	195
d Lochgoilhead (Nuthill)	Mrs. Henderson	5	1 0	15	*74·8*	80·78	..	193
D Glencroe (Guithas Cottage)	J. M. Reid, Esq.	5	1 2	120	*101·0*	110·52	221	194
13.—CLYDE—Leven. 4 sq. mi.								

DIVISION XV—WEST MIDLAND COUNTIES—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1932. Rainfall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
ARGYLL—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
14.—INSULAR. 900 sq. mi.								
D Islay (Ardbeg)	A. H. MacDougall, Esq.	5	5 6	60	45·1	45·11	213	178
Sanda Lighthouse	Com'rs. of N. Lighthouses.	5	2 9	134	*36·8*	35·38	200	164
Islay (Rhinns)	Com'rs. of N. Lighthouses.	7	3 6	74	..	37·38	..	..
Islay (Lochindaul)	Com'rs. of N. Lighthouses.	5	0 7	45	44·0	47·25	..	..
Islay (McArthur's Head)	Com'rs. of N. Lighthouses.	5	0 6	173	58·4	60·75	223	192
D Islay (Eallabus) *old g.*	J. MacKillop, Esq.	5	1 0	68	48·9	50·34	223	188
d Islay (Dunlossit)	Mrs. N. M. Dunlop	5	1 0	100	55·0	55·67	..	171
Islay (Rhuvaal)	Com'rs. of N. Lighthouses.	5	1 0	69	42·0	42·75	205	183
D Jura (Ardfin)	Colin Campbell, Esq.	5	1 0	160	*53·8*	55·33	236	190
Lismore (Mousedale)	Com'rs. of N. Lighthouses.	7	3 10	38	43·7	48·30	201	178
D Mull (Bunessan)	Angus Cameron, Esq.	5	1 3	50	51·6	49·67	196	184
Mull (Benmore)	The Meteorological Office.	5	2 0	2800	135·8	(134·60)	..	..
D Mull (Glencannel)	W. H. Mackay, Esq.	5	1 3	140	116·9	109·24	234	201
D Mull (Ulva)	F. W. Clark, Esq.	5	1 0	30	64·8	64·34	238	193
D Mull (Gruline)	J. W. Melles, Esq.	8	1 0	100	79·0	82·61	261	202
Mull, Sound of	Com'rs. of N. Lighthouses.		..	..	61·5	64·10	215	188
Fladda Lighthouse	Com'rs. of N. Lighthouses.	5	1 6	25	*58·2*	56·66	211	188
D Tiree (Cornaigmore School)	Meteorological Office.	5	1 0	22	44·7	41·07	236	175

DIVISION XVI—EAST MIDLAND COUNTIES.

CLACKMANNAN. (Area 55 sq. mi.)

1.—FORTH, LOWER—Left Bank Tributaries. 55 sq. mi.

D Alloa House Gardens	Earl of Mar & Kellie, K.T.	5	3 0	40	*34·3*	37·34	184	143
W Alloa W.W. (Gartmorn Res.)	Robert Cairns, Esq., C.E.	11	1 0	172	*33·2*	34·03	..	..
D Dollar (Dollarbeg)	James Bleloch, Esq.	5	0 9	300	*38·6*	41·81	213	148
D Tillicoultry (Westbourne)	Mrs. Willison	5	1 0	66	*37·0*	37·07	193	147
M Glendevon (Broich Burn). No. 2.	H. F. Hodge, Esq., C.E.	8	1 0	1333	*76·5*	75·18	..	..
M§Glendevon (Burnfoot Hill). No. 8.	H. F. Hodge, Esq., C.E.	8	1 0	1721	*49·2*	54·66	..	..
M Glendevon (Backhill). No. 9.	H. F. Hodge, Esq., C.E.	8	1 0	1067	*58·7*	62·09	..	..
D Glendevon (Backhill)	H. F. Hodge, Esq., C.E.	8	1 0	1067	*60·5*	64·34	238	186

KINROSS. (Area, 87 sq. mi.)

1.—FORTH, LOWER—Left Bank Tributaries. 15 sq. mi.

2.—LEVEN & C. 67 sq. mi.

d Loch Leven Sluice	Mr. J. Thomson	8	0 9	360	35·8	34·29	..	..
d Milnathort (Laurel Bank)	Capt. L. Kininmonth	5	1 0	398	*36·0*	35·17	..	..
D Milnathort (Ledlanet)	Sir James C. Calder, C.B.E.	5	1 3	700	*44·4*	46·95	188	149
D Milnathort (Ochil Hills San.)	Dr. R. H. Williamson	5	1 0	800	..	48·61	207	171
Milnathort (Ochil Hills San.) *new g.*	Dr. R. H. Williamson	5	1 0	1000	..	45·04	..	..

3.—EDEN. 2 sq. mi.

4.—TAY—Earn. 3 sq. mi.

FIFE. (Area, 505 sq. mi.)

1.—FORTH, LOWER—Left Bank Tributaries. 68 sq. mi.

d Rosyth (H. M. Dockyard)	The Supt. Civil Engineer	8	1 0	53	25·7	27·01	..	..
d Kincardine (Tulliallan)	Col. Alexander Mitchell	5	1 0	80	..	34·52	..	..
Carnock (Craigluscar Res.)	D. H. Shaw, Esq., M.C., C.E.	12	0 4	480	36·1	37·45	..	..

§ Gauge over-exposed.

DIVISION XVI—EAST MIDLAND COUNTIES—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1932. Rainfall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
FIFE—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
2.—LEVEN & C. 208 sq. mi.								
d Dunfermline (Fordell House)	Countess of Buckinghamshire	5	1 0	250	32·0	33·73	..	..
D Burntisland (Cullaloe Res.)	J. A. Waddell, Esq.	5	1 0	294	..	31·99	169	141
D Kirkcaldy (Munro Street)	F. Braid, Esq.	5	1 0	66	30·0	29·53	193	135
M Cleish Hills (Craiggaveral)	C. A. Alexander, Esq.	5	1 0	760	41·0	38·90	..	..
M Cleish Hills (Roscobie Res.)	C. A. Alexander, Esq.	5	1 0	660	39·6	38·63	..	
M Cleish Hills (Blairadam)	C. A. Alexander, Esq.	5	1 0	670	35·8	33·80	..	..
M Cleish Hills (Lochglow Res..)	C. A. Alexander, Esq.	5	1 0	900	39·3	35·40	..	..
D Leslie (Lothrie Reservoir)	R. Ritchie, Esq.	5	1 0	700	36·7	37·23	195	142
D Elie (The Castle)	Miss E. E. Scott Moncrieff..	5	0 8	9	25·2	26·48	203	133
D Colinsburgh (Cairnie House)	Maj. R.A. Anstruther, D.S.O.	5	3 6	125	28·8	25·91	187	129
D Colinsburgh (Balcarres)	Mr. W. Adams	5	1 0	300	..	28·54	189	134
Kirkmay (Crail)	J. Duncan, Esq.	5	1 0	110	..	29·91	..	..
3.—EDEN & C. 205 sq. mi.								
D Cupar (Clatto Reservoir)	Jas. M. Alexander, Esq.	5	1 0	505	30·1	33·94	215	149
D Cameron Waterworks	W. Watson, Esq., C.E.	5	1 0	478	29·9	31·88	160	137
D Cupar (Pitlair)	Mr. P. Webster	5	1 0	126	29·5	31·16	187	142
D Cupar (Rankeillour)	Mr. R. Tunstall	5	1 0	240	28·7	31·84	174	136
D Cupar (Fife & Kinross Asylum)	Medical Superintendent	5	1 0	210	27·7	29·55	181	135
D Kingsbarns	Miss M. R. Nimmo	5	1 0	35	..	26·36	168	118
D Cupar (Over Rankeillour)	H. Giles Walker, Esq.	5	1 0	200	28·7	27·92	180	119
D St. Andrews (Waterworks)	W. Watson, Esq., C.E.	5	1 0	217	27·3	27·13	178	131
D St. Andrews	W. Watson, Esq., C.E.	5	1 0	20	27·1	27·85	181	125
D Leuchars (Training Base) ..(+A)..	The Meteorological Office...	8	1 0	30	25·7	25·76	174	114
4.—FIRTH OF TAY. 25 sq. mi.								
D Newport (Tayfield)	W. Berry, Esq.	5	0 7	100	28·3	28·75	185	145
D Newport Manse	Rev. John A. Lees	5	1 0	150	27·1	25·76	164	114
D Newport (Seabank)	J. Grant Bruce, Esq.	5	4 6	15	27·5	25·02	172	118
D Tayport (Lighthouse)	J. H. Thompson, Esq., C.E..	5	1 0	27	26·3	26·12	177	118
5.—TAY—Earn. 1 sq. mi.								
6.—INSULAR.								
D Inchkeith	The Meteorological Office ..	8	1 0	190	21·8	22·99	159	124
Inchkeith Lighthouse	Com'rs. of N. Lighthouses ..	5	1 0	190	..	16·71	..	..
Isle of May	Com'rs. of N. Lighthouses ..	5	4 0	180	..	20·53	..	..
PERTH. (Area, 2535 sq. mi.)								
1.—FORTH—Right Bank Tributaries. 17 sq. mi.								
D Gartmore House Gardens	Mr. H. B. Matheson	5	1 0	160	*56·0*	58·27	219	171
d Loch Dhu	G. Henshilwood, Esq.,C.E...	8	0 6	325	79·8	79·80	..	187
2.—FORTH, UPPER—Left Bank Tributaries. 84 sq. mi.								
w Ledard	G. Henshilwood, Esq., C.E..	8	0 6	1500	*61·2*	66·74	..	..

DIVISION XVI—EAST MIDLAND COUNTIES—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1932. Rainfall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
PERTH—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
3.—FORTH—Teith. 221 sq. mi.								
w Loch Drunkie	G. Henshilwood, Esq., C.E.	8	0 6	420	*62·1*	65·70	..	..
D Invertrossachs	Sir James R. Wilson, Bt.	5	1 0	380	*58·7*	60·23	218	178
w Ben Venue (Glasahoile)	G. Henshilwood, Esq., C.E.	8	1 0	1150	*80·4*	87·50	..	..
d Loch Vennachar	G. Henshilwood, Esq., C.E.	8	0 6	275	55·3	59·91	..	171
D Bridge of Turk	G. Henshilwood, Esq., C.E.	8	0 6	275	*63·5*	67·72	190	181
w Loch Katrine (Tunnel Hill Top)	G. Henshilwood, Esq., C.E.	8	0 6	830	*81·4*	84·60	..	..
w Ben Ledi	G. Henshilwood, Esq., C.E.	8	0 6	1400	*66·6*	71·60	..	..
w Achnahard	G. Henshilwood, Esq., C.E.	8	1 0	474	*65·5*	69·20	..	..
Callander (Leny House)	Capt. M. Murray Buchanan.	5	1 0	340	*56·3*	58·50	..	..
w Strone Bridge	G. Henshilwood, Esq., C.E.	8	1 0	380	*72·4*	76·70	..	..
w Glen Meann	G. Henshilwood, Esq., C.E.	8	1 0	800	*77·2*	80·15	..	..
w Glen Finlas	G. Henshilwood, Esq., C.E.	8	1 0	1200	*79·0*	84·50	..	..
d Glengyle	G. Henshilwood, Esq., C.E.	8	0 6	380	89·9	100·70	..	206
w Upper Glengyle	G. Henshilwood, Esq., C.E.	8	1 0	750	*95·6*	108·35	..	..
w Allt a' Choin	G. Henshilwood, Esq., C.E.	8	1 0	1250	*89·6*	94·35	..	..
w Balquhidder (Blaircreach)	J. M. Fergusson, Esq.	5	1 0	460	*94·7*	105·86	..	..
d Balquhidder (Stronvar)	J. Gault, Esq.	5	1 0	422	74·2	61·93	..	..
4.—FORTH, LOWER—Left Bank Tributaries. 107 sq. mi.								
d Dunblane	W. L. Gibson, Esq., C.E.	5	1 0	250	*37·3*	38·40	(203)	(161)
D Balruddery	Mrs. J. F. Cameron.	5	1 6	560	..	46·28	207	162
D Glendevon (Glenquey Res.) No. 2.	H. F. Hodge, Esq., C.E.	8	1 0	945	*54·7*	60·45	197	172
d Glendevon (Tormaukin)	W. Phillips, Esq.	8	1 6	770	*53·6*	58·54	(201)	(149)
D Glendevon (Frandy)	H. F. Hodge, Esq., C.E.	8	1 0	911	*60·4*	63·95	227	171
Glendevon (Glensherup)	D. H. Shaw, Esq., M.C., C.E.	12	0 4	945	*59·8*	58·68	..	..
M Glendevon (Bald Hill). No. 1.	H. F. Hodge, Esq., C.E.	8	1 0	1202	*56·5*	62·76	..	..
M Glendevon (Wether Hill). No. 10.	H. F. Hodge, Esq., C.E.	8	1 0	1408	*48·8*	54·10	..	..
5.—LEVEN. 1 sq. mi.								
6.—EDEN. 4 sq. mi.								
7.—TAY—Earn. 376 sq. mi.								
D Gleneagles House	Mr. J. Scrimgeour.	8	1 0	447	*45·3*	43·12	195	154
Upper Farg (Plains)	Messrs. Leslie & Reid, C.E.	8	1 0	900	*35·9*	42·27	..	..
D Upper Farg (Main Bank)	Messrs. Leslie & Reid, C.E.	5	1 0	642	*31·3*	37·42	191	146
D Dunning (Kippen House)	Lady Wilson.	5	1 0	450	*43·1*	45·61	208	156
D Abernethy (Glenfarg House)	Norman I. Nasmyth, Esq.	5	1 3	120	..	36·44	188	154
d Glenfarg (Fordel)	Maj.-Gen. A. H. Marindin, C.B., D.S.O.	5	1 0	700	..	41·04	..	142
D Bridge of Earn (Ballendrick)	G. M. Taylor, Esq.	5	1 0	50	*32·6*	35·31	213	144
D Forgandenny (Horselea)	D. W. Guthrie, Esq.	5	0 9	..	..	35·24	176	136
d Bridge of Earn (Kinmonth)	Major D. G. Moncrieff Wright	5	1 0	..	*30·4*	30·22	..	..
D Lochearnhead (Ardloch)	S. Moir, Esq.	5	1 0	370	*64·3*	64·79	231	174
D Lochearnhead (Edinchip)	Sir Malcolm MacGregor, Bt.	5	1 0	513	*70·3*	74·38	238	164
D Comrie (Dunira)	W. Gilchrist Macbeth, Esq.	10	1 6	240	*52·0*	48·84	200	155
D Crieff (Strathearn Hydro)	Dr. G. Meikle.	5	1 0	478	40·9	40·98	212	153
8.—TAY—Almond & c. 149 sq. mi.								
d Perth (Wellshill Cemetery)	J. Ritchie, Esq.	5	1 0	77	30·8	28·96	192	..
w Logiealmond Lodge	Earl of Mansfield.	8	1 3	1020	*48·5*	48·90	..	..
D Glen Almond (Auchnafree)	Major J. A. C. Whitaker.	5	1 0	1015	*62·0*	68·32	194	177
9.—TAY—Strathtay below Dunkeld. 33 sq. mi.								
d Murthly (Douglasfield)	W. A. Rae, Esq.	5	1 0	237	*34·9*	34·63	..	..
D Dunkeld (Snaigow)	W. H. Cox, Esq.	5	1 0	370	*35·0*	37·20	194	148
D Dunkeld (Kincairney Lodge)	Mrs. Richmond.	8	1 0	400	..	35·15	228	160

DIVISION XVI—EAST MIDLAND COUNTIES—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Height of Ground above Sea Level.	Average Rainfall.	1932. Rainfall.	Days with ·01 in. or more.	Days with ·04 in. or more.
PERTH—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
10.—TAY—Bran. 81 sq. mi.								
D Strath Bran (Glenquaich Lodge)	W. H. Cox, Esq.	5	1 0	900	*55·0*	54·76	196	164
11.—TAY—Strathtay above Dunkeld. 95 sq. mi.								
D Aberfeldy (Dall Avon)	Dr. N. D. Mackay	5	1 0	320	*38·7*	39·10	194	136
D Grandtully	W. L. Macnaughton, Esq.	5	1 0	233	*36·1*	34·82	185	139
12.—TAY—Loch Tay. 241 sq. mi.								
D Tyndrum Manse	Rev. Farquhar MacRae	5	1 0	760	..	105·05	239	196
D Killin (Auchmore Gardens)	Mr. J. Easson	5	1 0	380	*56·8*	64·57	198	170
13.—TAY—Lyon. 142 sq. mi.								
D Glenlyon (Meggernie Castle)	Sir E. S. Wills, Bt.	5	1 0	700	*61·0*	70·83	181	167
w Fortingall (Glenlyon House)	Mr. J. W. Ford	5	1 0	425	*45·5*	50·24	..	..
14.—TAY—Tummel. 587 sq. mi.								
D Loch Rannoch (Dall)	Mr. D. Robertson, Jun.	5	1 0	722	44·7	52·54	206	159
D Loch Rannoch (Station)	Messrs. Balfour Beattie & Co.	5	1 0	1007	..	71·19	183	161
d Pitlochry (Dunfallandy)	D. Stewart-Fergusson, Esq..	5	1 0	410	33·8	34·97	..	144
D Loch Rannoch (Power House)	Messrs. Balfour Beattie & Co.	5	1 0	675	..	50·35	201	157
D Pitlochry (Bonskeid)	Dr. G. F. Barbour	5	1 0	540	34·3	35·05	184	141
d Fincastle House	Dr. G. F. Barbour	5	1 0	980	35·8	31·90	..	..
D Ericht Dam	Messrs. Balfour Beattie & Co.	5	1 0	1106	..	59·97	227	173
D Struan (Auchleeks)	Miss Robertson	5	1 0	710	45·1	52·54	170	164
D Blair Atholl (Blair Castle Grdns)	Mr. J. Dickson	5	1 0	500	33·1	36·82	233	151
D Glen Bruar (Bruar Lodge)..No. 1	Mr. A. McLauchlan	5	1 0	1600	46·7	52·47	223	184
D Glen Bruar (Bruar Lodge)..No. 2.	Mr. A. McLauchlan	5	1 0	1600	46·9	58·13	223	190
15.—TAY—Isla. 282 sq. mi.								
d Blairgowrie (Kinloch Manse)	Rev. T. Milne	5	1 0	280	*29·6*	32·76	(167)	(134)
D Dunkeld (Cardney)	A. R. Macgregor, Esq.	5	1 0	350	*36·7*	37·51	180	164
D Kirkmichael (Ballintuim Ho.)	Miss M. A. Macdonald	5	1 4	700	*37·8*	38·65	213	148
d Kirkmichael (School)	W. Muckersie, Esq.	5	1 0	700	..	37·49	(198)	(147)
16.—TAY—Left Bank Tributaries. 51 sq. mi.								
Pitfour Castle	Miss D. Cairns	..	..	..	*29·0*	29·86	164	147
D Kinfauns (Balthayock)	R. Wylie Hill, Esq.	5	4 6	323	*32·0*	31·78	189	142
D Perth (Ard Choille)	Earl of Mansfield	5	0 11	90	*31·8*	31·43	184	134
17.—FIRTH OF TAY. 45 sq. mi.								
Errol (Annat Cottage)	W. Kimm, Esq.	5	5 0	200	*27·5*	29·44	..	..
18.—SPEY—Right Bank Tributaries. 1 sq. mi.								
19.—LOCH LINNHE.—Left Bank Tributaries. 2 sq. mi.								
20.—CLYDE—Leven. 36 sq. mi.								

DIVISION XVI—EAST MIDLAND COUNTIES—(*con.*).

	STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Rain-gauge: Average Rainfall.	1932. Rainfall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
	ANGUS (Area, 875 sq. mi.)		*in.*	*ft. in.*	*ft.*	*in.*	*n.*		
	1.—TAY—Isla. 211 sq. mi.								
D	Kettins School	W. B. Ogilvie, Esq.	5	1 0	218	32·0	31·09	184	132
D	Glamis Castle	Mr. D. McInnes	5	0 9	250	30·9	30·56	191	126
D	Kirriemuir (Lintrathen)(+A)	G. Baxter, Esq., C.E.	8	1 0	700	34·7	35·77	209	143
M	Kirriemuir (Balnakeilly)	G. Baxter, Esq., C.E.	5	1 0	700	34·1	34·70	..	..
M	Kirriemuir (Dykends)	G. Baxter, Esq., C.E.	5	1 0	750	..	39·22	..	..
M	Kirriemuir (Creich Hill, N.)	G. Baxter, Esq., C.E.	5	1 0	1491	..	41·50	..	..
M	Kirriemuir (Backwater)	G. Baxter, Esq., C.E.	5	1 0	850	..	41·46	..	..
M	Kirriemuir (Westerton)	G. Baxter, Esq., C.E.	5	1 0	900	..	42·92	..	..
M	Kirriemuir (Macritch)	G. Baxter, Esq., C.E.	5	1 0	1300	..	41·14	..	..
M	Kirriemuir (Newton)	G. Baxter, Esq., C.E.	5	1 0	735	..	38·98	..	..
M	Kirriemuir (Longdrum)	G. Baxter, Esq., C.E.	5	1 0	1045	39·3	43·19	..	..
M	Kirriemuir (Glendye)	G. Baxter, Esq., C.E.	6	1 0	1050	..	45·79	..	..
M	Kirriemuir (Barney)	G. Baxter, Esq., C.E.	5	1 0	1130	40·2	43·22	..	..
M	Kirriemuir (Glenhead)	G. Baxter, Esq., C.E.	5	1 0	1340	..	43·10	..	..
M	Kirriemuir (Dalvanie)	G. Baxter, Esq., C.E.	5	1 0	1020	..	46·55	..	..
M	Kirriemuir (Glen Damff)	G. Baxter, Esq., C.E.	5	1 0	1360	..	46·64	..	..
	2.—FIRTH OF TAY. 80 sq. mi.								
D	Buddonness (Low Light)	J. H. Thompson, Esq., C.E.	5	1 0	27	26·4	23·88	190	120
D	Dundee Harbour	J. H. Thompson, Esq., C.E.	5	0 11	14	27·4	24·83	180	121
d	Dundee (Eastern Necropolis)	A. Macrae, Esq.	5	1 0	198	27·4	(27·98)	(172)	(132)
D	Dundee (Stobsmuir Res.)	G. Baxter, Esq., C.E.	5	1 0	278	..	27·92	175	132
d	Dundee (Camperdown Works)	Messrs. Cox Bros., Ltd.	5	1 0	300	26·8	(28·11)	..	..
D	Balruddery	H. S. Sharp, Esq.	5	1 0	266	29·8	27·88	190	144
D	Dundee (College Garden)	Director of Studies	8	1 0	147	26·2	28·21	177	138
	3.—SOUTH ESK & C. 371 sq. mi.								
D	Carnoustie	A. F. Anderson, Esq., C.E.	8	1 0	39	27·2	25·54	194	122
D	Monikie Reservoir	G. Baxter, Esq., C.E.	5	1 0	494	34·7	32·79	181	132
D	Monikie (Crombie Reservoir)	G. Baxter, Esq., C.E.	5	1 0	528	35·2	35·39	206	133
M	Monikie (Fallaws)	G. Baxter, Esq., C.E.	8	3 0	585	33·2	33·63	..	..
d	Arbroath (W. Cemetery)	J. W. Robertson, Esq.	5	1 0	93	25·6	26·79	..	110
W	Arbroath (Muirheads Res.)	T. A. Hogg, Esq., C.E.	5	1 0	251	28·1	30·59	..	..
	Forfar (Pitscandly House)	J. T. Ewen, Esq.	5	1 8	300	..	31·34	..	..
d	Montrose	D. Maxwell, Esq., C.E.	5	1 0	16	26·2	24·83	170	..
D	Montrose (West-End Park)	D. Maxwell, Esq., C.E.	5	1 0	19	26·0	28·68	169	121
d	Brechin (Argyll Street)	J. Hutton, Esq.	5	1 0	225	34·1	32·08	(190)	(122)
D	Forfar W. W. (Den of Ogil)	Alex. C. Miller, Esq., C.E.	12x4	2 1	633	..	36·62	165	136
D	Glenogil Waterworks	T. A. Hogg, Esq., C.E.	5	1 0	770	40·9	39·66	160	134
D	Glen Prosen (Pearsie House)	G. M. Wedderburn, Esq.	5	1 0	600	39·1	34·88	197	139
M	Glen Prosen (Cormuir)	G. Baxter, Esq., C.E.	5	1 0	870	..	47·50	..	..
D	Glen Prosen (Balnaboth Gdns.)	J. F. Hardie, Esq.	5	1 0	575	..	42·29	155	130
	4.—NORTH ESK & C. 213 sq. mi.								
	Brechin (Trinity)	Miss E. A. Stevenson	8	1 0	295	32·3	32·47	..	..
D	Montrose (Sunnyside Asylum)	C. K. Alexander, Esq.	5	1 0	200	27·0	27·67	195	118
D	Montrose (Kinnaber W.W.)	D. Maxwell, Esq., C.E.	4	1 0	40	26·9	27·52	172	129
	Brechin (Stracathro Gardens)	Mr. A. Dunlop	5	1 0	200	30·5	31·43	..	..

DIVISION XVII—NORTH-EASTERN COUNTIES.

	KINCARDINE. (Area, 382 sq. mi.)								
	1.—NORTH ESK & C. 99 sq. mi.								
D	Marykirk (Balmakewan)	W. Low, Esq.	5	1 1	120	30·3	29·34	183	118
D	Marykirk (Balmakewan), No. 2	W. Low, Esq.	5	1 0	80	30·2	29·43	186	113
D	Laurencekirk (Johnston Lodge)	R. B. Pearson, Esq.	5	1 0	400	33·1	33·71	186	130
D	Fettercairn (Fasque)	Sir J. E. Gladstone, Bt.	5	0 10	320	36·0	35·24	226	138
D	Fordown (Auchenblae)	D. N. Collie, Esq.	5	1 0	325	..	32·12	210	135
	2.—BERVIE, COWIE & C. 139 sq. mi.								
	Todhead Pt. Lighthouse	Com'rs. of N. Lighthouses	5	1 9	114	..	22·84	..	..
D	Stonehaven	The Town Council	5	1 0	190	..	29·98	189	136
D	Stonehaven (Mains of Cowie)	John Hart, Esq.	5	1 0	100	..	27·70	175	135
	Girdleness	Com'rs. of N. Lighthouses	7	4 0	89	..	27·66	..	..

DIVISION XVII—NORTH-EASTERN COUNTIES—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1932. Rainfall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
KINCARDINE—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
3.—DEE. 144 sq. mi.								
D Strachan (Bridge of Dye)	Sir J. E. Gladstone, Bt.	5	1 0	513	43·9	40·96	238	158
D Banchory (Invery)	Major Jas. Kerr	5	1 0	225	34·8	36·39	216	149
D Banchory (Woodlands Sch.)	D. B. McKelvie, Esq.	5	1 0	300	..	34·75	187	145
ABERDEEN. (Area, 1,974 sq. mi.)								
1.—DEE. 672 sq. mi.								
Glen Muick	T. F. Henderson, Esq., C.E..	5	1 0	1370	45·1	(51·06)	..	..
Glen Tanner (Aitnach)	T. F. Henderson, Esq., C.E..	5	1 0	1260	41·9	44·38	..	..
D Braemar (Bank)	G. H. Sinclair, Esq.	5	1 0	1111	35·4	39·76	221	157
D Braemar (Derry Lodge)	T. F. Henderson, Esq., C.E..	5	1 0	1400	38·1	41·27	225	164
D Balmoral Castle Gardens	Mr. R. F. Chalmers	5	1 0	927	33·0	37·04	266	162
D Abergeldie Castle Gardens	Mr. J. Durran	5	1 0	800	32·4	36·04	217	161
D Ballater (Irrigation Farm)	T. F. Henderson, Esq., C.E..	5	1 0	637	33·2	31·46	201	138
M Beinn Bhreac	T. F. Henderson, Esq., C.E..	5	1 0	2700	47·1	45·40	..	..
d Aboyne	T. F. Henderson, Esq., C.E..	5	1 0	412	31·0	30·40	..	145
D Dess House	W. R. Davidson, Esq.	5	1 8	480	31·2	35·05	238	178
d Glen Gairn (Gairn Shiel Lodge)	T. F. Henderson, Esq., C.E..	5	1 0	1100	34·4	38·52	(227)	(172)
d Glen Gairn (Corndavon)	T. F. Henderson, Esq., C.E..	5	1 0	1500	37·3	38·43	(215)	(170)
D Torphins (School House)	Dr. George Davidson	5	1 4	480	..	31·10	200	145
M Lumphanan	T. F. Henderson, Esq., C.E..	5	1 0	490	31·6	31·73	..	..
D Drumoak (Drum Castle)	Mrs. Irvine	5	1 0	320	30·9	32·29	208	150
d Logie Coldstone School	Duncan Paterson, Esq., M.A., B.Sc.	5	1 0	608	30·9	(32·97)	..	..
D Aberdeen (Mannofield Res.)	T. F. Henderson, Esq., C.E..	5	1 0	171	30·5	34·36	244	154
D Craigiebuckler	Macaulay Institute for Soil Research	5	1 0	220	..	35·47	237	155
2.—DON. 512 sq. mi.								
D Aberdeen (King's College) (+A)	The Meteorological Office...	8	1 0	37	29·5	31·93	212	143
d Strathdon (Estates Office)	C. Christie, Esq.	5	1 2	990	35·0	32·74	(204)	(157)
D Craibstone (Sth. Meethill Field)	Prof. J. Hendrick.	5	1 0	275	33·6	34·76	217	146
D Craibstone (Woodlands Field)	College of Agriculture	8	1 0	300	31·5	33·89	212	146
D Dyce (Parkhill House)	Mrs. Crombie	8	0 11	170	31·4	35·37	216	156
D Inverurie (Westfield)	J. Skinner Troup, Esq.	5	1 0	207	28·3	29·35	222	152
3.—YTHAN & C. 285 sq. mi.								
D Ellon (Esslemont House)	Capt.R.Wolrige Gordon,M.C.	5	1 6	100	29·8	29·82	226	148
D Ellon (Auchmacoy)	Earl of Caithness.	5	1 0	150	..	26·93	233	138
D Haddo House	Earl of Haddo.	5	1 0	186	31·5	30·85	254	157
D Fyvie Castle	Col. Sir C. R. Forbes-Leith, Bt.	5	1 0	200	33·9	34·42	208	180
4.—UGIE & C. 257 sq. mi.								
d New Deer School House	J. A. Thomson, Esq.	5	1 0	397	32·8	32·82	..	..
D Peterhead (Stockbridge)	J. Robertson, Esq.	5	1 0	150	28·5	26·31	233	149
D Peterhead (Mains of Buthlaw)	W. Johnston, Esq.	5	1 6	120	30·3	29·66	209	156
D Peterhead (Forehill Works)	J. Dickie, Esq., C.E.	5	0 8	133	30·3	29·26	224	161
D Brucklay Castle	A. Dingwall Fordyce, Esq...	5	1 3	300	..	34·21	225	169
D Brucklay Castle Gardens	A. Dingwall Fordyce, Esq...	5	1 1	300	..	34·26	236	169
Kinnaird Head	Com'rs. of N. Lighthouses..	5	1 0	62	23·5	(24 61)	..	..
5.—DEVERON & C. 248 sq. mi.								
D Huntly (Union Bank Ho.)	F. G. Allordice, Esq.	5	1 0	500	..	35·22	229	171
D Huntly (Cruchie)	Miss C. Joss.	5	1 0	400	31·7	31·01	247	172

DIVISION XVII—NORTH-EASTERN COUNTIES—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Rain-gauge: Average Rainfall.	1932: Rainfall.	1932: Days with ·01 in. or more.	1932: Days with ·04 in. or more.
BANFF. (Area, 630 sq. mi.)		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
1.—YTHAN. 1 sq. mi.								
2.—DEVERON & C. 344 sq. mi.								
D Drummuir Castle	G. Clinton Chessor, Esq.	5	1 10	620	36·4	42·00	227	182
d Keith Station	A. Munro, Esq.	5	1 0	356	33·8	37·38	..	..
D Turriff (Forglen Gardens)	Mr. G. Stuart	5	1 0	220	31·9	32·04	232	156
d Gamrie (Clenterty P. School)	T. H. Smith, Esq.	5	1 0	420	40·1	33·82	(215)	(149)
D Banff	I. H. Gordon, Esq.	5	0 9	130	26·8	24·84	212	137
Buckie (Rochonnie)	W. Hendry, Esq.	5	1 0	334	27·0	33·92	..	..
Buckie (West Church Street)	W. Hendry, Esq.	5	1 0	75	26·2	27·66	..	..
D Cullen House Gardens	Mr. Mitchell Harrower	5	1 2	150	30·6	31·46	204	161
3.—SPEY—Right Bank Tributaries. 285 sq. mi.								
D Ballindalloch	C. Mackenzie, Esq.	8	1 0	680	33·0	37·48	222	159
D Aberlour Orphanage	J. G. White, Esq.	5	1 0	350	32·7	34·45	192	164
MORAY. (Area, 477 sq. mi.)								
1.—DEVERON & C. 7 sq. mi.								
2.—SPEY—Right Bank Tributaries. 35 sq. mi.								
D Gordon Castle	Mr. C. Webster	5	1 0	104	29·8	29·12	209	145
3.—SPEY—Left Bank Tributaries. 133 sq. mi.								
d Grantown-on-Spey	W. A. Watson, Esq.	5	1 1	700	31·1	34·97	(211)	(154)
D Knockando (Windmill Cottage)	Mr. L. Younie	5	1 0	606	33·3	38·36	228	164
D Aberlour (Wester Elchies)	Mr. A. Ross	5	1 0	550	34·2	34·21	211	169
4.—LOSSIE & C. 154 sq. mi.								
d Lhanbryde (Blackhills House)	T. N. Christie, Esq.	5	3 6	310	29·2	(33·87)	(220)	(167)
D Elgin (Kirkhill)	P. J. Macdonald, Esq.	5	1 7	35	..	28·46	190	154
M Elgin (Rotha)	W. C. Young, Esq.	5	1 0	80	25·8	27·99	..	..
D Duffus (Hopeman Lodge)	Mrs. Gordon Duff.	8	0 6	65	..	28·50	202	148
Covesea (Skerries)	Com'rs. of N. Lighthouses.	5	8 0	32	..	26·72	..	..
5.—FINDHORN & C. 148 sq. mi.								
D Forres (Drumduan)	The MacKinnon of MacKinnon	5	0 9	120	..	31·87	209	145
D Forres (Drumduan Gdns.)	G. Dyker, Esq.	8	5 0	50	..	31·68	225	141
NAIRN. (Area, 163 sq. mi.)								
1.—FINDHORN & C. 102 sq. mi.								
D Drynachan Lodge	Alex. Manson, Esq.	5	1 0	729	..	49·40	224	199
D Ardclach (Glenferness)	Mr. A. McKenzie.	8	1 6	700	34·8	42·10	196	169
d Lethen	Col. Hon. I.M. Campbell, D.S.O.	5	1 1	350	..	33·57	..	..
2.—NAIRN & C. 61 sq. mi.								
D Cawdor Castle	Mr. James Taylor	5	0 6	225	29·2	39·11	246	166
D Nairn (Balblair)	Major H. C. H. Allanby.	5	1 0	94	24·5	30·55	219	146
Nairn (Urchany Res.)	The Town Council.	5	1 0	291	..	34·76	..	..
D Nairn (Achareidh)	Major K. S. Clarke.	8	1 0	59	24·3	29·89	239	154
D Nairn (Golf Course)	The Town Council.	8	1 9	20	24·9	27·48	204	133

DIVISION XVIII—NORTH-WESTERN COUNTIES.

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1932. Rainfall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
INVERNESS. (Area, 4,146 sq. mi.)		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
1.—TAY—Tummel. 28 sq. mi.								
d Loch Ericht (Ben Alder Lodge)	Mr. F. Mackintosh	5	1 0	1175	56·4	61·37	(259)	(183)
2.—SPEY—Right Bank Tributaries. 437 sq. mi.								
Dalwhinnie (Drumochter Lodge)	Mr. J. Thow	5	1 0	1375	..	(59·60)	..	..
D Dalwhinnie	Mr. Cochrane for M.O.	8	1 0	1176	..	53·38	198	183
3.—SPEY—Left Bank Tributaries. 257 sq. mi.								
d Cluny Castle	Mr. A. Macdonald	5	1 0	816	39·9	45·07	(242)	(189)
D Glenshero	British Aluminium Co., Ltd.	8	1 0	880	..	**52·73**	**233**	**178**
M Loch Spey	British Aluminium Co., Ltd.	5	1 0	1164	67·5	76·43	..	..
D Laggan (Gergask)	British Aluminium Co., Ltd.	8	1 0	870	*38·4*	43·73	227	175
D Kingussie (The Birches)	British Aluminium Co., Ltd.	8	1 0	810	31·5	37·94	226	164
d Alvie Manse	Rev. Dugald Maclean	5	1 0	750	30·3	34·38	(219)	(166)
D Carr Bridge (Crannich)	Mrs. J. A. Doak	5	1 0	900	29·6	34·29	222	155
4.—FINDHORN. 164 sq. mi.								
D Tomatin (Dalmigavie Lodge)	Mr. A. Kennedy	5	1 0	1150	..	45·63	227	186
5.—NAIRN & C. 131 sq. mi.								
6.—NESS—Right Bank Tributaries. 252 sq. mi.								
D Fort Augustus (St. Benedict's)	The Procurator	5	1 0	68	*44·2*	49·50	208	163
d Loch Ness (Killin, Whitebridge)	British Aluminium Co., Ltd.	8	1 0	1200	*47·9*	71·16	(244)	(216)
D Loch Ness (Garthbeg)	British Aluminium Co., Ltd.	8	1 0	630	*41·5*	51·62	250	184
D Loch Ness (Foyers)	British Aluminium Co., Ltd.	8	1 0	52	38·2	47·33	231	169
D Loch Ness (Aberchalder)	British Aluminium Co., Ltd.	8	1 0	700	*35·8*	49·85	267	176
D Inverness (Culduthel Res.)	A. Knowles, Esq.	5	1 0	242	*26·7*	31·84	203	130
7.—NESS—Garry &c. 185 sq. mi.								
M Loch Quoich (Loan)	Col. D. W. Cameron of Lochiel	5	1 0	750	..	133·31	..	..
d Loch Quoich (Kinlochquoich)	Col. D. W. Cameron of Lochiel	5	1 0	580	..	129·81	..	..
D Loch Quoich (Glenquoich)	T. Mackenzie, Esq.	5	1 2	569	110·7	120·89	247	230
D Invergarry (The Schoolhouse)	W. M. Aitken, Esq.	5	1 0	180	..	74·83	244	181
8.—NESS—Moriston. 120 sq. mi.								
D Glenmoriston (Ceannacroc)	J. Grant, Esq.	5	1 0	410	..	76·79	240	203
D Glenmoriston (Invermoriston Hotel)	P. J. Kydd, Esq.*	5	1 0	70	..	56·85	201	175
9.—NESS—Enrick. 131 sq. mi.								
d Glen Urquhart (Corrimony)	P. H. Dolphin, Esq.*	5	1 0	520	..	(52·94)	(233)	(176)
D Inverness (Ruigh Ard Asylum)	The Medical Supt.	5	0 11	330	*29·9*	39·79	223	159
10.—BEAULY. 341 sq. mi.								
d Beauly (Culmill)	W. L. McWilliam, Esq.	5	1 0	190	..	41·95	..	156
11.—CROMARTY FIRTH. 13 sq. mi.								
12.—SOUND OF SLEAT. 259 sq. mi.								
D Mallaig Manse	Rev. A. Mactaggart	5	1 0	150	52·2	57·08	245	235
D Loch Nevis (Inverie Gardens)	Mr. Malcolm McLeod	5	1 3	15	*85·6*	81·79	234	214
13.—SOUND OF ARISAIG. 126 sq. mi.								
D Moidart (Kinlochmoidart)	J. C. Stewart, Esq.	5	1 0	13	*69·4*	76·90	249	212
D Moidart (Roshven)	P. Blackburn, Esq.	5	1 0	40	*67·6*	76·31	213	212
D Arisaig (Faire-na-Sguir)	Miss C. C. Astley	5	1 0	30	*55·7*	53·92	235	184
D Arisaig House	Mr. W. Grant	5	1 0	40	*62·9*	67·87	233	201
14.—LOCH LINNHE—Right Bank Tributaries. 48 sq. mi.								
D Loch Eil (Achdalieu)	Col. D. W. Cameron of Lochiel	5	1 0	100	61·8	77·49	226	197
15.—LOCHY—Right Bank Tributaries. 143 sq. mi.								
D Loch Arkaig (Achnacarry)	Col. D. W. Cameron of Lochiel	5	1 0	128	82·0	90·72	241	201
d Loch Arkaig (Glendessary)	Col. D. W. Cameron of Lochiel	5	1 0	300	106·6	112·82	..	234

* Per Capt. W. N. McClean.

DIVISION XVIII—NORTH-WESTERN COUNTIES—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Rain-gauge: Average Rainfall.	1932. Rainfall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
INVERNESS—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
16.—LOCHY—Left Bank Tributaries. 362 sq. mi.								
D Clunes (L. Lochy W.)	Col. D. W. Cameron of Lochiel	5	1 6	110	..	82·66	237	204
Loch Treig (Creaguaineach)	British Aluminium Co.,Ltd..	5	1 0	800	74·0	86·93	..	..
M Ben Alder (Loch a'Bhealich)	Mr. F. Mackintosh	5	1 0	2360	109·0	109·60	..	..
Loch Ossian (Strathossian Ho.)	British Aluminium Co.,Ltd..	8	1 0	1180	70·2	85·82	..	..
Fort William (Allt'a Mhuilinn)	British Aluminium Co.,Ltd..	8	1 0	1000	85·1	79·66	..	..
D Fort William (The Factory)	British Aluminium Co.,Ltd..	8	1 0	75	69·6	78·33	243	198
Roybridge (Lairig Road)	British Aluminium Co.,Ltd..	8	1 0	1650	91·2	97·59	..	..
M Ben Alder (Lochan Sgoir)	Mr. F. Mackintosh	5	1 0	2300	111·1	105·60	..	..
Spean Bridge (The Cour)	British Aluminium Co.,Ltd..	5	1 0	1050	92·5	108·17	..	..
Spean Bridge (Sgurr Finisgaig)	British Aluminium Co.,Ltd..	8	1 0	2000	91·6	94·11	..	..
D Loch Treig (Fersit)	British Aluminium Co.,Ltd..	8	1 0	850	62·9	73·81	244	195
Tulloch (Allt Laire)	British Aluminium Co.,Ltd..	5	1 0	1050	..	76·04	..	..
d Roybridge (Allt Leachdach)	British Aluminium Co.,Ltd..	8	1 0	650	..	69·33	..	..
M Loch Pattaig	Sir J. F. Ramsden, Bt.	5	0 9	1420	59·6	76·35	..	..
Glen Spean (Craigbeg)	British Aluminium Co.,Ltd..	8	1 0	860	54·9	(69·13)	..	..
W Loch Lochy (Invergloy)	Mr. J. Strang	5	1 0	200	58·9	75·29	..	..
D Loch Laggan (Ardverikie)	Sir J. F. Ramsden, Bt.	5	0 6	838	..	61·91	242	167
17.—LOCH LINNHE—Left Bank Tributaries. 120 sq. mi.								
d North Ballachulish (Alltshellach)	B. Chinnery-Haldane, Esq..	5	2 1	80	74·3	(84·28)	(241)	(217)
D Onich	Forestry Commission	5	1 3	48	72·8	86·30	227	201
d Glenleven (Blackwater Dam, N) 7.	British Aluminium Co.,Ltd..	8	1 0	1072	85·5	109·73	(256)	(214)
D Kinlochleven (Kinlochmore Lo.)	Mr. Ian Currie	5	1 0	115	92·6	109·56	262	215
Kinlochleven (Mamore Lodge)	Mr. Ian Currie	5	1 8	700	95·1	116·83	..	..
Glenleven (Invercam)....No. 6.	British Aluminium Co.,Ltd..	8	1 6	1070	74·8	87·34	..	..
Glenleven (Ciarin) .....No. 3.	British Aluminium Co.,Ltd..	8	1 6	1200	80·8	96·56	..	..
Glenleven (Loch Eilde Mhor) 8.	British Aluminium Co.,Ltd..	8	1 6	1130	94·9	109·66	..	..
Glenleven (Loch Eilde Beg) No. 9.	British Aluminium Co.,Ltd..	8	1 6	1125	94·6	106·83	..	..
Glenleven (Corrour).....No. 5.	British Aluminium Co.,Ltd..	8	1 6	1260	70·1	85·45	..	..
D Fort William (Teviot)	J. W. Ainslie, Esq.	8	1 0	34	..	88·94	233	184
D Fort William (Glasdrum)	British Aluminium Co.,Ltd..	5	1 0	216	..	84·61	224	189
18.—INSULAR, INNER HEBRIDES. 786 sq. mi.								
D Isle of Eigg	Rt. Hon. Walter Runciman, P.C.	8	2 8	150	*53·5*	63·41	205	199
Hyskier	Com'rs of N. Lighthouses ..	5	0 5	31	*40·0*	50·11	203	191
D Skye (Kyleakin, Dunringell)	Maj. A. D. Mackinnon, C.M.G.	5	2 1	80	*62·4*	70·00	246	190
Oronsay Lighthouse	Com'rs. of N. Lighthouses..	5	0 6	10	*52·7*	57·08	242	201
D Skye (Scalpay Island)	Mr. D. Gunn	5	1 0	4	*75·1*	82·40	247	191
D Skye (Portree)	D. Dewar, Esq.	5	1 0	65	*61·7*	70·58	258	224
Skye (N. Eist Point)	Com'rs. of N. Lighthouses..	5	0 8	65	*50·0*	53·63	203	189
D Skye (Dunvegan)	Mrs. Mackenzie	5	3 0	47	*65·8*	62·28	247	199
d Skye (Kilmuir)	Seton Gordon, Esq.	5	1 0	230	..	(50·68)	(253)	(195)
19—INSULAR, OUTER HEBRIDES. 243 sq. mi.								
D Barra (Skallary)	J. Smith, Esq.	8	0 10	26	..	45·92	234	196
S. Uist (Ushenish Light)	Com'rs. of N. Lighthouses .	5	1 0	178	..	48·11	223	198
D Lochmaddy (Vallay)	G. Beveridge, Esq.	5	1 0	30	..	47·85	278	191
D N. Harris (Amhuinsuidh Castle)	Norman Robertson, Esq...	5	1 3	12	*57·5*	62·54	251	223
ROSS & CROMARTY. (Area, 3,237 sq. mi.)								
1.—NESS—Moriston. 35 sq. mi.								
D Glenmoriston (Cluanie Inn)	Mrs. Macdonald*	5	1 3	630	..	115·14	268	226
2.—BEAULY. 109 sq. mi.								
Monar	Major J. S. Stirling	5	0 9	700	..	78·66	..	..
3.—MORAY FIRTH COAST STREAMS. 64 sq. mi								
D Fortrose	A. Thom, Esq.	5	1 0	69	*23·4*	28·96	199	134
d Fearn (Geanies)	Mr. A. Munro	5	0 11	200	*23·1*	26·85	..	129

* Per Capt. W. N. McClean.

DIVISION XVIII—NORTH-WESTERN COUNTIES—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1932. Rainfall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
ROSS & CROMARTY—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
4.—CROMARTY FIRTH. 714 sq. mi.								
D Muir of Ord (Fairburn)	Major J. S. Stirling	5	1 0	500	..	44·54	212	161
D Strathpeffer	W. P. Hutton, Esq.	8	1 0	125	30·5	36·73	219	154
D Dingwall (The Academy)	The Rector	5	1 0	18	*29·0*	31·68	213	145
Cromarty	Com'rs. of N. Lighthouses	5	1 0	21	*24·4*	25·93	..	..
D Alness (Ardross Castle)	Mr. D. M. Sharpe	5	1 0	450	38·5	41·24	243	177
5.—DORNOCH FIRTH. 355 sq. mi.								
D Tain (Ardlarach)	Col. C. MacIver Ritchie	5	1 0	400	*29·4*	37·13	271	178
Tarbetness	Com'rs. of N. Lighthouses	5	1 10	62	*23·0*	24·19	..	..
6.—ENARD BAY. 78 sq. mi.								
7.—LOCH BROOM & C. 367 sq. mi.								
Loch a' Bhraoin (Vroain)	The late Rev. Sir Montague-Fowler, Bt.	8	0 9	820	*62·2*	72·11	..	..
Loch Drome	The late Rev. Sir Montague-Fowler, Bt.	8	0 9	870	*63·4*	67·36	..	..
Braemore House	The late Rev. Sir Montague-Fowler, Bt.	8	0 7	720	61·9	64·63	..	..
Inverbroom House	The late Rev. Sir Montague-Fowler, Bt.	8	0 7	50	*54·7*	58·67	..	..
D Ullapool	Dr. D. Wallace	5	1 6	75	48·0	49·16	242	186
8.—LOCH EWE, LOCH TORRIDON & C. 423 sq. mi.								
D Poolewe (Inverewe Gardens)	R. J. Hanbury, Esq.	5	0 6	20	*55·2*	52·26	242	203
9.—LOCH CARRON, LOCH ALSH & C. 401 sq. mi.								
D Glenshiel (Ratagan)	Forestry Commission	5	1 0	12	*80·0*	90·54	201	193
D Loch Duich (Inverinate)	J. Finlayson, Esq.	5	1 0	28	..	82·72	247	210
Loch Carron (Strome Ferry)	Mr. D. D. Munro	5	1 0	50	*64·7*	70·29	..	..
D Loch Carron (Dunhulladale)	Mrs. G. J. Campbell	5	1 0	9	*70·5*	78·36	262	211
Applecross Gardens	Mr. J. McCowan	5	1 6	70	57·3	66·41	..	..
D Achnashellach	Forestry Commission	5	1 0	225	84·4	87·19	247	238
10.—INSULAR, OUTER HEBRIDES. 691 sq. mi.								
D Stornoway (Leurbost Sch.)	A. Matheson, Esq.	5	0 6	100	..	47·49	233	198
Stornoway Lighthouse	Com'rs. of N. Lighthouses	5	0 6	28	..	42·80	196	170
D Stornoway	The Meteorological Office	8	1 0	30	49·9	46·88	259	198
Stornoway (Matheson Rd.)	W. Grant, Esq.	8	1 0	52	..	48·91	..	..
Butt of Lewis Lighthouse	Com'rs. of N. Lighthouses	8	3 9	51	*39·6*	47·96	222	210

DIVISION XIX—NORTHERN COUNTIES.

SUTHERLAND. (Area, 2,080 sq. mi.).

1.—DORNOCH FIRTH. 413 sq. mi.								
d Skibo Castle Gardens	R. D. Cameron, Esq.	5	1 0	62	..	33·92	(236)	(149)
D Lairg	A. Gunn, Esq.	5	1 0	330	37·3	36·52	207	154
2.—FLEET, BRORA & C. 309 sq. mi.								
d Golspie (Technical School)	E. W. Read, Esq.	5	1 2	100	32·2	31·91	(223)	(161)
3.—HELMSDALE & C. 226 sq. mi.								

DIVISION XIX—NORTHERN COUNTIES—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1932. Rainfall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
SUTHERLAND—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
4.—NORTH COAST STREAMS. 736 sq. mi.								
D Skerray (Borgie)	The Forestry Commission	5	1 0	110	37·5	46·12	247	207
D Tongue	Miss. W. J. Lundie	5	1 0	180	41·0	43·74	273	199
D Melvich	A. MacIntosh, Esq.	5	1 0	200	36·0	36·70	244	189
Cape Wrath	Com'rs. of N. Lighthouses	5	0 9	346	..	45·87	..	..
5.—LOCH LAXFORD & C. 256 sq. mi.								
D Loch More (Achfary)	Mr. J. Munro	5	1 0	137	75·8	89·83	267	237
6.—ENARD BAY. 138 sq. mi.								
7.—INSULAR. 2 sq. mi.								
CAITHNESS. (Area, 696 sq. mi.).								
1.—BERRIEDALE, DUNBEATH & C. 169 sq. mi.								
Berriedale (Langwell)	Duke of Portland	5	1 6	150	33·8	32·96	..	..
Clythness	Com'rs. of N. Lighthouses	5	1 5	133	29·6	30·27	..	..
2.—WICK & C. 184 sq. mi.								
D Wick (South Head C. G. Stn.)	The Meteorological Office	8	1 2	81	29·9	30·43	226	153
Nosshead	Com'rs. of N. Lighthouses	5	0 9	129	25·1	24·48	..	..
3.—THURSO & C. 238 sq. mi.								
D Thurso (Buckies)	J. H. M. Davidson, Esq.	5	0 1	240	39·0	36·15	215	189
Thurso (Holburn Head)	Com'rs. of N. Lighthouses	5	0 8	68	..	31·89	210	162
Dunnet Head	Com'rs. of N. Lighthouses	5	1 0	331	30·2	33·66	213	172
Duncansby Head	Com'rs. of N. Lighthouses	5	..	196	31·4	28·46	..	163
4.—FORSS & C. 104 sq. mi.								
D Reay (The Manse)	Rev. Dugald Carmichael	9	1 0	49	36·2	36·90	276	188
5.—INSULAR. 1 sq. mi.								
Stroma	Com'rs. of N. Lighthouses	5	3 0	54	25·5	35·76	202	199
ORKNEY. (Area, 389 sq. mi.).								
Pentland, Skerries Lighthouse	Com'rs. of N. Lighthouses	5	3 0	70	..	27·44	265	177
Hoy (Cantickhead)	Com'rs. of N. Lighthouses	5	3 10	68	*35·5*	30·14	..	..
Hoy (Graemsay Sound, High)	Com'rs. of N. Lighthouses	5	1 4	29	*35·9*	35·70	238	177
Hoy (Graemsay Sound, Low)	Com'rs. of N. Lighthouses	8	4 4	40	*36·7*	43·26	234	205
d Deerness	W. J. Moar, Esq.	5	1 0	160	35·4	(35·42)	(264)	(177)
D Kirkwall (Bignold Park)	The Town Council	5	1 0	113	36·9	35·03	243	192
Hellyar Holm	Com'rs. of N. Lighthouses	5	1 3	35	..	30·25	..	175
Auskerry	Com'rs. of N. Lighthouses	5	1 0	22	..	30·52	255	171
Shapinsay (Balfour Castle)	Mr. W. Liddell	5	0 6	50	32·0	32·61	..	..
d Sandwick School	J. A. Fotheringham, Esq.	5	1 4	51	..	36·72	..	..
Sanday (Start Point)	Com'rs. of N. Lighthouses	5	1 0	27	*32·3*	32·88	238	177
North Ronaldshay	Com'rs. of N. Lighthouses	5	0 9	22	..	36·83	..	..
SHETLAND. (Area, 558 sq. mi.).								
D Lerwick (Ft. Charlotte)	The Meteorological Office	8	1 0	54	..	38·41	224	189
D Lerwick Observatory (+A)	The Meteorological Office	8	1 0	269	38·1	37·56	257	183
Eshaness	Com'rs. of N Lighthouses		..	..	..	34·52	..	..
D Bixter (Vementry)	Andrew Tait, Esq.	5	1 1	25	..	35·82	253	192
Unst (Baltasound, Halligarth)	Dr. T. E. Saxby	5	1 0	31	42·1	42·28	312	193

IRELAND.

DIVISION XX.—MUNSTER.

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1932. Rainfall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
CORK. (Area, 2873 sq. mi.)		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
1.—SHANNON—Left Bank Tributaries. 79 sq. mi.								
2.—DINGLE BAY. 4 sq. mi.								
3.—KENMARE & C. 47 sq. mi.								
4.—BANTRY BAY. 197 sq. mi.								
Bantry House	Mrs. Shelswell-White	5	1 0	25	*57·2*	50·73	..	..
D Garinish Island	M. Mackenzie, Esq.	5	1 0	24	*70·4*	61·78	200	170
5.—DUNMANUS BAY. 57 sq. mi.								
6.—BANDON & C. 694 sq. mi.								
D Toormoor (Altar Rectory)	Rev. R. J. Colthurst	5	0 10	60	..	38·27	191	147
D Castle Townshend (Glen Barrahane)	Sir M. P. Coghill, Bt.	5	1 3	100	*44·7*	41·38	193	157
D Castle Townshend (Seafield)	Major H. Chavasse	5	1 0	40	*47·6*	42·23	188	159
D Skibbereen (Hollybrook Farm)	Capt. C. M. Morgan	8	1 6	60	*53·6*	47·08	196	169
D Caheragh (The Rectory)	Rev. A. W. Whitley	5	1 0	98	*56·7*	45·93	202	152
D Kinsale (Scilly House)	J. J. Orr, Esq., M.D	5	1 0	62	*38·5*	37·39	187	145
D Kinsale (Nohoval Rectory)	Rev. H. Hadden	5	0 6	272	*39·0*	36·84	169	136
D Dunmanway (The Rectory)	Rev. Canon A. Wilson	5	1 6	205	61·0	55·57	222	183
7.—CORK HARBOUR. 726 sq. mi.								
D Cork (University College). (+A)	Prof. H. N. Walsh	5	1 0	57	40·0	37·57	205	150
D Cork (Wellington Road)	R. C. Sikes, Esq., C.E.	5	2 2	120	*40·3*	38·74	203	154
D Midleton (Ballinacurra)	J. H. Bennett, Esq.	8	1 0	24	40·4	36·86	196	145
D Glanmire (Lota Lodge)	No. 1....A.F.Sharman-Crawford, Esq.	5	1 0	200	42·6	39·95	195	160
8.—WOMANAGH & C. 118 sq. mi.								
D Shanagarry (Kinoith)	Miss L. P. Strangman	5	1 0	75	*35·2*	36·66	181	142
9.—BLACKWATER. 922 sq. mi.								
D Mallow (Longueville)	R. E. Longfield, Esq.	5	1 0	310	37·3	38·85	234	170
D Mallow (Hazlewood)	E. McLysaght, Esq.	5	1 0	360	*39·5*	37·97	194	175
Kanturk (Castlecor)	Mrs. Norton Barry	..	..	..	*37·6*	36·71	238	169
10.—SUIR. 3 sq. mi.								
11.—INSULAR. 26 sq. mi.								
KERRY. (Area, 1851 sq. mi.)								
1.—SHANNON—Left Bank Tributaries. 372 sq. mi.								
2.—TRALEE BAY & C. 221 sq. mi.								

DIVISION XX.—MUNSTER—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1932. Rainfall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
KERRY—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
3.—DINGLE BAY. 789 sq. mi.								
D Cahirciveen (Valentia Obs.) (+A)	The Meteorological Office	8	1 0	30	55·7	48·98	225	181
M Gap of Dunloe (Gearhameen)	J. Casey, Esq., for M.O.	8	3 0	75	94·0	87·90	..	..
D Killarney (Flesk Mills)	J. Lawlor, Esq.	8	2 6	96	*54·9*	55·05	208	168
D Killarney (Mental Hospital)	E. W. Griffin, Esq., M.D.	5	1 2	173	54·7	49·49	199	172
D Killarney (Lakeview)	Capt. Sir M. O'Connell, Bt., M.C.	5	1 0	120	*55·5*	55·91	197	175
Killorglin (Callinafercy)	Maj. M. R. Leeson-Marshall.	5	1 0	40	*51·9*	45·82	..	..
d Bally McElligott Rectory	Rev. G. Maxwell	5	0 11	20	..	39·74	(209)	(178)
4.—KENMARE & C. 426 sq. mi.								
D Darrynane Abbey	Miss M. O'Connell	5	1 0	13	51·0	42·30	212	171
D Kenmare (Dromore Castle)	Lt.-Col. E. Hood	5	0 9	90	*65·1*	61·46	210	185
D Kenmare (Sheen Falls)	Marquess of Lansdowne	5	0 5	25	*65·6*	66·80	239	198
5.—BLACKWATER. 30 sq. mi.								
6.—INSULAR. 13 sq. mi.								
WATERFORD. (Area, 715 sq. mi.)								
1.—BLACKWATER. 243 sq. mi.								
2.—COLLIGAN & C. 259 sq. mi.								
d Dunmore East	W. Lloyd, Esq.	6	1 0	30	..	34·52	..	135
d Kilmacthomas (Comragh Ho.)	The late Miss M. Fairholme	5	1 0	350	..	(49·52)	..	..
3.—SUIR. 213 sq. mi.								
D Knockaderry Reservoir (No. 2)	D. Sheedy, Esq.	5	1 0	248	*41·3*	41·06	187	141
D Waterford (Gortmore)	Mrs. N. H. White	5	1 2	137	38·9	36·66	205	138
D Carrick-on-Suir (Seskin)	Louis Grubb, Esq.	8	1 0	542	*45·0*	43·16	222	152
TIPPERARY. (Area, 1660 sq. mi.)								
1.—SHANNON—Left Bank Tributaries. 582 sq. mi.								
D Birdhill (Parteen Weir)	Electricity Supply Board	5	..	50	..	34·04	209	159
D Nenagh (Traverston)	Miss A. H. Norris	5	1 0	333	*45·2*	41·30	239	180
D Nenagh (Castle Lough)	S. Parker-Hutchinson, Esq.	5	1 3	120	39·5	38·50	234	175
D Cloughjordan (Modreeny)	Capt. G. W. Whitfield	5	3 0	275	..	32·27	182	156
D Roscrea	Electricity Supply Board	..	..	..	..	28·31	190	143
d Borrisokane	Electricity Supply Board	5	1 10	200	..	34·19	..	..
D Terryglass (Old Court)	M. D. Hickie, Esq.	5	1 0	150	*34·5*	29·71	232	160
Terryglass (Slevoyre)	B.-Gen. C. J. Hickie, C.M.G.	8	1 0	143	*31·9*	28·76	208	137
2.—BLACKWATER. 21 sq. mi.								
3.—SUIR. 965 sq. mi.								
D Cahir (Abbey)	Mrs. W. Rochfort	5	1 0	160	39·2	34·43	201	167
D Cashel (Ballinamona)	E. W. M. Murphy, Esq.	5	1 0	262	36·8	32·16	208	149
Clonoulty (Corbally)	A. Moyniham, Esq.*	5	1 0	386	..	33·51	..	..
4.—BARROW—Nore. 92 sq. mi.								
D Roscrea (Timoney Park)	S. Parker-Hutchinson, Esq.	5	1 0	475	*36·2*	31·45	188	148
LIMERICK. (Area, 1040 sq. mi.)								
1.—SHANNON—Right Bank Tributaries. 7 sq. mi.								

* *Per* Irish Rainfall Association.

DIVISION XX.—MUNSTER—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1932. Rainfall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
LIMERICK—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
2.—SHANNON—Left Bank Tributaries. 944 sq. mi.								
d Abbeyfeale (Springmount Sch.)	J. F. O'Kelly, Esq	5	1 0	360	*41·1*	37·87	..	..
D Knocklong (Kilfrush)	Mrs. Gubbins	5	1 3	312	*37·8*	33·56	212	166
D Ballingarry Presbytery	Rev. Thomas Hogan	5	1 0	308	..	31·19	222	157
D Foynes (Coolnanes)	Lord Monteagle	5	1 0	50	39·4	33·96	212	150
d Foynes (National School)	W. Purtill, Esq	5	2 8	15	*39·5*	31·06	..	..
D Limerick (Mulgrave Street)	Messrs. W. J. Shaw & Sons	5	1 1	60	*38·5*	35·50	215	168
D Limerick (Boat Club)	W. J. C. Horne, Esq	5	1 0	50	*38·6*	34·43	216	162
D Castleconnell Rectory	Rev. Canon L. G. Davis	5	1 0	88	*41·2*	35·52	171	150
3.—BLACKWATER. 64 sq. mi.								
4.—SUIR. 25 sq. mi.								
CLARE. (Area, 1270 sq. mi.)								
1.—GALWAY BAY, SOUTH. 100 sq. mi.								
2.—MAL BAY & C. 294 sq. mi.								
Kilkee (Marine Parade)	R. N. Griffin, Esq	5	1 2	50	*41·8*	40·90	230	171
D Inagh (Mount Callan)	Capt. R. G. Totteuham	5	1 0	479	*67·2*	52·44	203	195
3.—SHANNON—Right Bank Tributaries. 854 sq. mi.								
d Dromoland Castle	Dowager Lady Inchiquin	5	1 6	45	*40·0*	(33·27)	..	..
D Broadford (Hurdlestown)	Lt.-Col. W. A. Bentley	5	1 0	167	*39·7*	37·08	227	164
D Tuamgraney (Raheen Ho.)	E. MacLysaght, Esq	5	1 0	180	*41·9*	41·90	209	169
4.—INSULAR. 22 sq. mi.								
WEXFORD. (Area, 902 sq. mi.)								
1.—BARROW. 43 sq. mi.								
2.—OWENDUFF & C. 240 sq. mi.								
D Foulks Mills (Longraigue)	Miss J. Deane	5	1 1	220	39·3	38·90	197	159
3.—SLANEY & C. 467 sq. mi.								
D Johnstown Castle	Lady Maurice Fitzgerald	5	1 0	201	*37·0*	40·60	186	154
D Enniscorthy (Woodbrook)	Col. S. W. W. Blacker, D.S.O.	5	1 0	370	*48·8*	46·34	203	179
4.—OWENAVORRAGH & C. 146 sq. mi.								
D Gorey (Courtown House)	Earl of Courtown	5	1 0	60	34·7	37·02	195	130
D Gorey (Ram's Gate)	Lt.-Cmdr. A.C.L.Ellis, R.N.R.	5	4 2	170	..	37·65	182	147
5.—OVOCA & C. 6 sq. mi.								
KILKENNY. (Area, 798 sq. mi.)								
1.—SUIR. 162 sq. mi.								
D Piltown (Bessborough)	The Earl of Bessborough	8	3 7	60	..	35·72	197	141

DIVISION XXI.—LEINSTER.

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1932. Rainfall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
KILKENNY—(*con.*):		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
2.—BARROW—Nore. 527 sq. mi.								
D Kilkenny Castle	Earl of Ossory	8	1 6	182	33·1	28·80	181	131
d Tullaroan	J. Molony, Esq.	5	1 0	589	..	(36·44)	(206)	(142)
D Castlecomer House	Capt. R. H. Prior-Wandesforde	5	1 0	380	*39·6*	35·72	196	156
3.—BARROW. 109 sq. mi.								
WICKLOW. (Area, 781 sq. mi.)								
1.—BARROW. 12 sq. mi.								
2.—SLANEY. 200 sq. mi.								
D Shillelagh (Coollattin Gardens)	Mr. F. W. Cox	5	0 9	383	41·9	37·52	183	140
3.—OVOCA & C. 241 sq. mi.								
4.—VARTRY & C. 193 sq. mi.								
D Rathnew (Clonmannon)	R. H. S. Truell, Esq.	5	1 6	27	*33·1*	33·10	203	132
D Roundwood (Vartry Lodge)	Dublin Corporation	5	1 3	720	*45·0*	38·98	189	141
Roundwood	Dublin Corporation*	5	1 8	750	*44·6*	38·50	..	..
D Newcastle (Killadreenan)	Dr. C. Denys Hanan	8	1 2	256	*36·0*	31·90	180	128
D Delgany (Elsinore)	Miss N. G. Moore	8	1 4	260	..	35·70	194	139
D Greystones (Burnaby Lodge)	Capt. C. H. West	5	1 0	95	..	31·62	180	122
5.—LIFFEY & C. 135 sq. mi.								
D Blessington Rectory	Rev. W. Reeves Scully	5	0 8	670	*38·0*	41·96	234	169
CARLOW. (Area, 346 sq. mi.)								
1.—BARROW—Nore. 9 sq. mi.								
2.—BARROW. 216 sq. mi.								
Bagnalstown (Fenagh House)	D.R.P.Beresford,Esq.O.B.E.	5	1 0	340	34·9	34·23	203	141
D Carlow (Belmont)	Capt. E. M. Thomas	5	1 0	191	*34·8*	34·23	170	136
d Carlow (Browne's Hill)	B.-Gen. R. Browne Clayton	5	1 0	291	34·1	31·64	..	..
D Bella Vista	E. Shackleton, Esq.	5	0 10	182	..	32·41	219	142
3.—SLANEY. 121 sq. mi.								
d Rathvilly (Lisnavagh Gardens)	C. E. Faulkner, Esq.	5	2 6	400	*36·9*	32·62	..	138
D Hacketstown Rectory	Rev. C. S. S. Ellison	5	1 6	590	39·5	37·34	222	147
LEIX (Area, 664 sq. mi.)								
1.—SHANNON—Left Bank Tributaries. 25 sq. mi.								
2.—BARROW—Nore. 339 sq. mi.								
D Abbey Leix (Blandsfort)	Mrs. Hum Bland	5	1 0	532	36·5	35·45	211	155
3.—BARROW. 300 sq. mi.								
D Mountmellick (Summer Grove)	W. A. Robinson, Esq.	5	1 0	252	*38·5*	39·00	216	165

* *Per* Irish Rainfall Association.

DIVISION XXI.—LEINSTER—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1932. Rainfall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
OFFALY (Area, 772 sq. mi.)		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
1.—SHANNON—Left Bank Tributaries. 560 sq. mi.								
D Birr Castle	Earl of Rosse	8	1 0	173	32·6	28·76	197	139
D Meelick (Victoria Lock)	Office of Public Works	5	1 0	121	*29·9*	27·27	185	131
d Banagher	Electricity Supply Board	5	1 6	130	*30·8*	27·10	..	143
D Tullamore (St. Vincent's Hosp.)	Dr. G. A. Moorhead	5	1 0	225	*32·6*	29·87	253	152
D Ferbane (Turraun Peat Works)	Leinster Carbonizing Co.	8	1 2	165	*32·5*	26·22	180	145
D Ballycumber (Bellair Ho.)	Mrs. F. B. Mulock	5	..	290	*33·9*	27·79	214	163
2.—BARROW—Nore. 5 sq. mi.								
3.—BARROW. 156 sq. mi.								
Edenderry (Tubberdaly Ho.)	J. Murphy, Esq	5	1 6	330	*33·5*	31·34	..	..
4.—BOYNE. 51 sq. mi.								
D Edenderry (The Tunnel)	C. T. Calwell, Esq	8	3 7	265	..	27·79	166	134
KILDARE. (Area, 654 sq. mi.)								
1.—BARROW. 332 sq. mi.								
D Athy (Cromaboo Bridge)	Office of Public Works	5	0 11	185	..	27·89	167	124
D Monasterevin (Pass Bridge)	Office of Public Works	5	0 8	208	..	29·50	195	138
2.—LIFFEY. 246 sq. mi.								
D Straffan House	F. B. Barton, Esq	5	1 0	256	31·4	34·04	173	145
D Clongowes Wood College	The Principal	8	1 4	246	*30·2*	34·91	207	138
3.—BOYNE. 76 sq. mi.								
DUBLIN. (Area, 354 sq. mi.)								
1.—VARTRY & C. 23 sq. mi.								
D Shankill (Sherrington)	Lt.-Col. J. C. W. Erck	5	1 0	115	*29·6*	28·47	166	119
Killiney (Rathleigh)	H. R. Maunsell, Esq	5	3 6	..	*28·1*	26·19	..	..
2.—LIFFEY & C. 188 sq. mi.								
D Stillorgan (Vartry Ho.)	Dublin Corporation	5	1 0	264	*28·0*	30·13	191	135
D Stillorgan (Farmleigh)	T. Jackson, Esq	5	1 1	220	*32·8*	29·86	183	135
d Kingstown (Harbour Office)	Office of Public Works	8	1 0	52	..	(25·92)	(178)	(114)
D Kingstown (Harbour Yard)	Office of Public Works	8	1 0	52	*28·3*	26·56	174	120
d Kingstown (Tivoli Terr. S.)	Capt. L. B. Merideth	5	1 0	131	..	25·00	..	118
D Kingstown (People's Park)	Dr. T. J. Lydon	8	1 6	25	..	24·99	189	131
D Rathfarnham Castle	Rev. S. Hughes, S.J.	8	1 0	175	*28·4*	28·00	183	137
D Rathmines (Neville Road)	T. H. Mason, Esq	5	1 0	100	*28·0*	29·12	172	144
D Donnybrook (Anglesea Road)	F. C. D. Joynt, Esq	5	1 0	30	*27·9*	29·46	178	134
D Dublin (FitzWilliam Square)	Sir J. W. Moore, M.D.	8	1 6	54	27·4	25·01	191	120
D Dublin (Ringsend Pumpg. Stn.)	G. S. Harty, Esq., C.E.	10	0 9	5	*26·3*	23·90	169	131
D Dublin (Trinity College)	R. W. Ditchburn, Esq	8	1 2	12	26·1	23·94	180	113
D Dublin (Phœnix Park)	Ordnance Survey Office	8	1 0	155	27·6	29·60	191	150
D Hazelhatch (Peamount San.)	Medical Officer	5	1 0	366	..	30·75	188	132
D Clontarf (Pumping Station)	G. S. Harty, Esq., C.E.	5	1 0	5	*24·4*	25·08	194	131
D Glasnevin (Botanic Gardens)	The Director	8	1 0	55	27·9	26·74	195	130
d Howth (Danesfort)	Mrs. H. E. Guinness	5	1 0	460	..	25·72	..	123
D Howth Castle	J. Gaisford St. Lawrence, Esq.	5	1 9	35	*28·7*	24·01	167	128

DIVISION XXI.—LEINSTER—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1932. Rainfall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
DUBLIN—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
3.—NANNY, DELVIN & C. 142 sq. mi.								
D Malahide (Seamount)	J. G. Jameson, Esq.	5	1 0	150	*28·0*	25·55	181	132
Malahide (St. Andrews)	Ven. Archd'con T. S. Lindsay.	5	1 3	100	*27·7*	27·17	..	128
D Lusk (Nevitt)	W. Monks, Esq.	5	1 0	139	*29·2*	29·33	210	115
Skerries (Milverton Hall)	Capt. E. G. Woods	5	1 0	190	*28·0*	27·07	168	121
D Balbriggan (Ardgillan)...No.1....	Capt. E. R. Taylor	5	1 0	210	29·0	27·94	195	126
4.—INSULAR. 1 sq. mi.								
D Lambay Island	Lord Revelstoke		1 0	20	*27·4*	24·10	157	117
MEATH. (Area, 909 sq. mi.)								
1.—SHANNON—Left Bank Tributaries. 32 sq. mi.								
2.—LIFFEY & C. 72 sq. mi.								
D Dunboyne (Stirling, Clonee)	Mr. J. Pilkington	8	1 0	231	*33·3*	30·72	183	140
3.—NANNY, DELVIN & C. 150 sq. mi.								
4.—BOYNE. 560 sq. mi.								
D Summerhill House	Mr. W. Lauder	5	1 0	372	*33·7*	32·00	175	140
Dunsany Castle Gardens	Mr. J. B. Pow	5	1 0	323	*33·8*	30·60	191	153
D Athboy (Frayne)	Dr. Beryl F. E. Moore	5	0 9	310	..	33·51	217	153
D Beauparc (St. Cloud)	W. J. Hopkins, Esq.	5	1 0	215	*31·5*	32·29	196	150
D Kells (Headfort)	The Marquis of Headfort...	8	1 0	227	37·0	33·34	189	155
5.—DUNDALK BAY. 95 sq. mi.								
WESTMEATH. (Area, 712 sq. mi.)								
1.—SHANNON—Left Bank Tributaries. 517 sq. mi.								
D Athlone	Office of Public Works....	5	1 0	132	*28·2*	29·46	184	152
Athlone (Twyford House)	J. P. Hodson, Esq.	5	1 0	187	37·0	31·87	200	..
d Streamstown (Windmill)	H. A. S. Upton, Esq.	5	1 6	..	*34·5*	31·77	..	..
D Moate (Coolatore)	H. A. S. Upton, Esq.	5	1 6	369	*33·5*	27·83	209	140
D Mullingar (Belvedere House)	Mr. G. W. Roberts.	5	1 0	367	36·3	34·42	202	157
D Mullingar (Ballynegall Gardens)...	Major Hawkesworth Smyth.	5	1 3	340	*39·0*	34·17	209	165
D Rathowen (Cromlyn).....(R)..	Maj.-Gen. T. P. Battersby, C.B.	8	1 6	298	*36·1*	36·24	213	152
D Castlepollard (Pakenham Hall)....	The Earl of Longford	5	2 6	..	*36·6*	37·15	218	160
2.—BOYNE. 195 sq. mi.								
LOUTH. (Area, 316 sq. mi.)								
1.—BOYNE. 32 sq. mi.								
2.—DUNDALK BAY & C. 264 sq. mi.								
D Dundalk Rectory	Rev. T. F. Campbell	5	1 0	10	*30·8*	28·35	213	154
Dundalk (Ballymacallet Mt.)	The Surveyor	5	2 3	670	*41·5*	36·41	..	..
D Dundalk (Aughneskea Res.)	The Surveyor	5	1 3	207	*38·3*	32·84	200	158
3.—CARLINGFORD LOUGH. 20 sq. mi.								
D Greenore	S. Wilson, Esq.	5	1 3	20	31·9	**31·99**	**202**	141

DIVISION XXI.—LEINSTER—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1932. Rainfall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
LONGFORD. (Area, 424 sq. mi.)		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
1.—ERNE. 61 sq. mi.								
d Granard	Electricity Supply Board...	5	1 6	..	..	36·13	..	..
2.—SHANNON—Left Bank Tributaries. 363 sq. mi.								
D Ballymahon (New Castle)	Col. W. A. King-Harman..	5	1 0	200	*36·7*	36·00	201	152
Longford (The Rectory)	Rev. H. Justice.....	5	1 0	185	*37·8*	33·61	195	149
D Cloondrah	Office of Public Works.....	5	1 0	132	*31·5*	32·06	208	143
D Castle Forbes Gardens	The Earl of Granard.....	8	1 0	161	37·6	35·39	175	159
D Gaigue School	Electricity Supply Board...	5	1 9	390	..	34·68	176	135

DIVISION XXII.—CONNAUGHT.

GALWAY. (Area, 2377 sq. mi.)

1.—ERIFF & C. 141 sq. mi.

2.—GALWAY BAY NORTH. 277 sq. mi.

3.—CORRIB. 846 sq. mi.

d Galway (Grammar School)	The Headmaster.....	5	1 0	64	40·0	(35·20)	..	..
D Ballynahinch Castle	H.H.Maharaja of Nawanagar	5	1 9	41	61·0	49·72	239	197
D Tuam Palace Gardens	G. H. Greenham, Esq.....	5	1 0	140	..	42·67	193	164
Tuam (Gardenfield)	R. J. Kirwan, Esq., C.E....	5	1 0	155	44·1	44·08	..	..

4.—GALWAY BAY, SOUTH. 281 sq. mi.

5.—SHANNON—Right Bank Tributaries. 803 sq. mi.

d Portumna	Electricity Supply Board...	5	3 0	..	..	28·05	..	157
d Ballinasloe B.N.S.	Electricity Supply Board...	5	..	150	*36·7*	29·18	(190)	(153)
D Ahascragh (Clonbrock)..(*new g*)	The Hon. Miss Dillon.....	5	1 0	198	41·6	36·65	..	165
D Mt. Bellew B.N.S.	Electricity Supply Board...	5	1 8	200	..	39·11	208	159
D Ballygar	Electricity Supply Board...	5	..	200	..	31·03?	199	146
D Glenamaddy	Electricity Supply Board ..	5	2 0	..	..	38·16	185	157

6.—INSULAR. 29 sq. mi.

ROSCOMMON. (Area, 961 sq. mi.)

1.—SLIGO BAY. 6 sq. mi.

2.—MOY. 11 sq. mi.

3.—CORRIB. 16 sq. mi.

4.—SHANNON—Right Bank Tributaries. 928 sq. mi.

d Lanesborough	Electricity Supply Board...	5	1 6	140	..	32·26	..	151
D Strokestown (Castlenode)	W. J. Walpole, Esq.....	5	1 0	160	35·0	34·66	194	152
D Boyle	Electricity Supply Board...	5	1 0	200	..	32·68	201	163

MAYO. (Area, 2149 sq. mi.)

1.—SLIGO BAY. 10 sq. mi.

2.—MOY & C. 797 sq. mi.

D Castlebar Rectory	Rev. J. Jackson.....	5	1 0	145	*50·0*	47·58	238	199

DIVISION XXII.—CONNAUGHT—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Rain-gauge: Average Rainfall.	1932. Rainfall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
MAYO—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
3.—BLACKSOD BAY & C. 411 sq. mi.								
D Blacksod Point	Meteorological Office	8	1 0	10	49·7	50·07	233	186
4.—CLEW BAY. 254 sq. mi.								
D Louisburgh (Old Head House)	The Marquess of Sligo	5	1 6	120	..	46·86	237	183
D Westport House	The Marquess of Sligo	5	1 0	35	46·6	44·78	239	180
D Mallaranny	M. C. Forbes, Esq	5	1 0	120	*59·8*	58·90	222	201
5.—ERIFF & C. 121 sq. mi.								
D Aasleagh House	The Marquess of Sligo	5	1 0	30	95·2	93·52	253	220
D Delphi Lodge	The Marquess of Sligo	5	1 0	110	99·0	88·14	245	226
6.—CORRIB. 432 sq. mi.								
Tourmakeady (Drimbawn Ho.)	Capt. E. G. Woods	5	1 0	100	*54·0*	53·22	221	158
d Claremorris (Castle MacGarrett)	Lord Oranmore and Browne.	5	0 10	200	..	(39·97)	..	..
7.—SHANNON—Right Bank Tributaries. 35 sq. mi.								
8.—INSULAR. 89 sq. mi.								
SLIGO. (Area, 716 sq. mi.)								
1.—DROWES & C. 49 sq. mi.								
2.—SLIGO BAY. 444 sq. mi.								
D Collooney (Markree Obsy.)	The Meteorological Observer.	5	1 0	122	43·3	45·87	238	179
D Sligo (Ard-na-veagh)	R. J. Kirwan, Esq., C.E.	5	1 0	90	*41·5*	44·00	222	182
3.—MOY & C. 166 sq. mi.								
4.—SHANNON—Right Bank Tributaries. 56 sq. mi.								
5.—INSULAR. 1 sq. mi.								
LEITRIM. (Area, 615 sq. mi.)								
1.—ERNE. 152 sq. mi.								
2.—DROWES & C. 85 sq. mi.								
3.—SLIGO BAY. 135 sq. mi.								
4.—SHANNON—Right Bank Tributaries. 47 sq. mi.								
5.—SHANNON—Left Bank Tributaries. 196 sq. mi.								
D Cloone	Electricity Supply Board	5	1 10	210	..	39·54	210	162
D Drumshanbo (Lough Allen Sluice)	Office of Public Works	5	1 0	169	*36·6*	36·09	226	154

DIVISION XXIII.—ULSTER.

CAVAN. (Area, 753 sq. mi.)								
1.—ERNE. 489 sq. mi.								
D Crossdoney (Kevit Castle)	Dr. F. P. Smith	5	1 0	211	*35·5*	35·23	195	157
D Belturbet (Cloverhill)	Miss M. L. Gee	5	1 0	202	34·6	31·43	206	151
2.—SHANNON—Right Bank Tributaries. 34 sq. mi.								
d Glangevlin	Electricity Supply Board	5	1 10	600	..	49·26	..	..
3.—SHANNON—Left Bank Tributaries. 91 sq. mi.								
4.—BOYNE. 122 sq. mi.								
5.—DUNDALK BAY. 17 sq. mi.								

DIVISION XXIII.—ULSTER—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Rain-gauge: Average Rainfall.	1932. Rainfall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
FERMANAGH. (Area, 713 sq. mi.)		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
1.—ERNE. 667 sq. mi.								
D Newtownbutler (Crom Castle)	G. R. J. Corbett, Esq.	5	1 1	200	..	38·14	222	156
D Enniskillen (Castle Coole)	Lady Dorothy Lowry-Corry.	5	1 0	240	*41·0*	38·40	228	152
Enniskillen (Technical School)	J. W. Mansfield, Esq.	5	0 10	165	..	35·04	..	..
d Enniskillen (Portora School)	The Headmaster	5	1 0	251	*40·3*	38·53	..	..
D Colebrooke	Sir Basil Brooke, Bt.	5	1 6	250	..	41·76	212	173
D Belleek (Roscor)	Mrs. Dick	5	1 0	500	..	54·41	258	203
D Belleek (Heronshaw)	T. Beacom, Esq.	5	1 2	150	*45·5*	45·35	222	202
D Castle Archdale	Mrs. Archdale	5	1 0	247	..	38·71	202	167
2.—DROWES & C. 46 sq. mi.								
MONAGHAN. (Area, 498 sq. mi.)								
1.—ERNE. 208 sq. mi.								
2.—DUNDALK BAY. 132 sq. mi.								
3.—BANN—Lough Neagh, West. 158 sq. mi.								
ARMAGH. (Area, 514 sq. mi.)								
1.—DUNDALK BAY. 118 sq. mi.								
Crossmaglen (Anamar)	P. Norris, Esq.	5	1 1	384	*36·2*	31·95	191	147
2.—CARLINGFORD LOUGH. 23 sq. mi.								
D Bessbrook (The Woodhouse)	J. S. W. Richardson, Esq.	5	1 0	260	*37·2*	33·48	211	151
3.—BANN—Lough Neagh, East. 37 sq. mi.								
D Lurgan (Belle Vue) *new g*	S. A. Bell, Esq., J.P.	5	1 0	200	29·7	26·63	187	143
4.—BANN, UPPER. 144 sq. mi.								
5.—BANN—Lough Neagh, West. 192 sq. mi.								
D Tynan Abbey	Capt. C. N. L. Stronge	5	1 0	167	..	31·07	177	144
D Armagh Observatory (+A)	The Meteorological Office.	8	1 0	204	31·7	31·48	196	144
D Richhill (Sandymount)	Mrs. C. B. Lamb	5	1 6	200	*29·3*	31·27	190	151
DOWN. (Area, 961 sq. mi.)								
1.—CARLINGFORD LOUGH. 104 sq. mi.								
D Newry (Bridge Street House)	C. Blaney, Esq.	5	1 0	23	38·1	34·44	186	144
2.—DUNDRUM BAY & C. 173 sq. mi.								
D Silent Valley (Belfast W.W.) *new g*	C. F. Wheeler, Esq., C.E.	5	1 0	426	..	46·94	198	163
D Annalong (Belfast W.W.)	C. F. Wheeler, Esq., C.E.	5	2 9	435	*47·5*	51·24	228	167
D Mourne Mount'ns (Fofanny Res.)	J. E. Croasdaile, Esq., M.A.	5	1 0	938	*64·4*	62·93	181	164
D Seaforde	T. W. Forde, Esq.	8	1 0	180	38·3	38·29	216	178
3.—STRANGFORD LOUGH. 260 sq. mi.								
D Strangford	G. L. Hildebrand, Esq.	5	0 8	30	..	30·36	176	139
D Saintfield House	Rev. E. H. Blackwood-Price.	5	0 9	300	*34·9*	35·03	257	152
Newtownards (Grey Abbey)	H. H. K. Worsley, Esq.	..	..	10	..	29·22	190	159
4.—COAST STREAMS. 47 sq. mi.								
D Donaghadee (Coastguard Stat.)	The Meteorological Office.	8	1 0	40	31·3	32·24	213	154
D Donaghadee (Craigmore)	Dr. S. B. Coates	5	1 0	60	*30·6*	29·13	202	131

DIVISION XXIII.—ULSTER—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Height of Ground above Sea Level.	Average Rainfall.	1932. Rainfall.	Days with ·01 in. or more.	Days with ·04 in. or more.
DOWN—(*con.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
5.—BELFAST LOUGH. 206 sq. mi.								
Annaghanoon	W. J. Gibson, Esq.	5	1 0	200	..	28·53	..	..
D Waringstown (The Forge)	W. J. Gibson, Esq.	5	1 0	187	32·2	29·40	197	142
D Hillsborough (Research Stn.)	The Secretary	5	1 0	388	..	28·69	216	153
6.—BANN—Lough Neagh, East. 7 sq. mi.								
7.—BANN, UPPER. 162 sq. mi.								
Banbridge (Observatory)	H. D. Fleming, Esq.	5	1 6	210	*32·1*	29·47	207	141
D Banbridge (Milltown)	J. E. Kennedy, Esq.	5	1 0	200	31·0	27·95	212	139
D Portadown (Moyallon House)	Mr. J. Eccles	5	0 7	130	*32·6*	29·14	194	141
8.—INSULAR. 2 sq. mi.								
ANTRIM. (Area, 1193 sq. mi.)								
1.—BELFAST LOUGH. 107 sq. mi.								
D Lambeg (Glenmore House)	Linen Industry Res. Assn.	8	0 11	100	..	31·44	206	166
D Dunmurry (Warren House)	Col. H. R. Charley	5	0 10	110	..	32·51	209	159
D Belfast (Queen's University)	J. A. Badger, Esq.	5	1 0	62	34·5	32·05	196	150
Belfast (Sewage Works)	R. B. Donald, Esq., C.E.	8	1 0	26	*35·8*	31·66	..	..
d Belfast (Cave Hill Road)	Miss C. Firth	5	1 0	200	*40·2*	38·18	257	168
D Belfast (Oldpark Filters) *new g.*	C. F. Wheeler, Esq., C.E.	5	1 0	203	..	37·06	191	160
D§Carrickfergus (Dorisland) *new g.*	C. F. Wheeler, Esq., C.E.	5	1 0	250	..	34·49	187	151
D Carrickfergus (S. Woodburn) *new g.*	C. F. Wheeler, Esq., C.E.	5	1 0	640	..	40·73	207	168
D Carrickfergus (N. Woodburn) *new g.*	C. F. Wheeler, Esq., C.E.	5	1 0	735	..	41·79	208	165
D Carrickfergus (Copeland) *new g.*	C. F. Wheeler, Esq., C.E.	5	1 0	427	..	36·45	209	157
D Carrickfergus (L. Mourne) *new g.*	C. F. Wheeler, Esq., C.E.	5	1 0	596	..	38·70	195	158
2.—GLENARM & C. 186 sq. mi.								
D Larne (Sallagh Springs)	J. E. Croasdaile, Esq. M.A.	5	1 0	566	*50·0*	45·19	205	178
d Glenarm Castle	Mr. T. Daly	5	1 4	30	*44·6*	(44·61)	(226)	(200)
3.—BUSH & C. 193 sq. mi.								
D Ballycastle (Magherintemple)	Capt. J. Casement, D.S.O.	5	1 0	230	*42·6*	40·71	215	173
4.—BANN, LOWER. 112 sq. mi.								
5.—BANN—Lough Neagh, East. 590 sq. mi.								
D Stoneyford (Belfast W.W.) *new g.*	C. F. Wheeler, Esq., C.E.	5	1 0	453	..	32·43	192	153
D Aldergrove Aerodrome (+A)	The Meteorological Office	8	1 0	238	33·0	33·21	209	147
D Randalstown (Hollybrook)	N. F. Webb, Esq.	5	1 0	120	..	35·16	236	174
D Ballymena (Harryville)	J. R. Williams, Esq.	5	1 5	150	*41·5*	40·17	226	192
D Broughshane (Tullymore Sch.)	E. W. Thomson, Esq.	5	1 2	218	*41·0*	39·89	216	162
D Broughshane (Quolie)	H. O'Hara, Esq., C.E.	5	1 3	864	*47·3*	44·36	237	189
6.—INSULAR. 5 sq. mi.								
LONDONDERRY. (Area, 816 sq. mi.)								
1.—LOUGH SWILLY. 6 sq. mi.								
D Londonderry (Dunruadh)	J. H. Welch, Esq.	5	0 6	130	*40·5*	39·13	224	175
2.—BUSH & C. 9 sq. mi.								
3.—BANN, LOWER. 240 sq. mi.								
D Coleraine (Cutts House)	Maxwell Given, Esq., C.E.	8	1 0	20	*39·6*	37·56	231	176
D Coleraine (Ingledene)	W. R. Johnston, Esq.	5	6 0	55	..	35·22	232	176
4.—BANN—Lough Neagh West. 196 sq. mi.								

§Gauge over-exposed.

DIVISION XXIII.—ULSTER—(*con.*).

STATIONS.	AUTHORITIES.	Diam.	Rain-gauge: Height of Rim above Ground.	Rain-gauge: Height of Ground above Sea Level.	Average Rainfall.	1932. Rainfall.	1932. Days with ·01 in. or more.	1932. Days with ·04 in. or more.
LONDONDERRY—(*con.*)								
5.—FOYLE & C. 365 sq. mi.		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
M Glenedra (Spelhoagh Mountain)	W. Criswell, Esq., C.E.	5	1 0	1333	*60·0*	62·83	..	..
M Glenedra Hill	W. Criswell, Esq., C.E.	5	1 0	1333	*62·5*	64·76	..	..
M Glenedra Lodge	W. Criswell, Esq., C.E.	5	1 0	950	*55·6*	58·52	..	..
M§Glenedra (Altagarran Mountain)	W. Criswell, Esq., C.E.	5	1 0	1230	..	54·96	..	..
M Altnaheglish (Altabrogy Burn)	W. Criswell, Esq., C.E	5	1 0	967	..	57·44	..	..
M Glenedra Intake	W. Criswell, Esq., C.E	5	1 0	740	..	54·64	..	..
M Altnaheglish (Glack Burn)	W. Criswell, Esq., C.E.	5	1 0	967	..	50·88	..	..
D Dungiven (Banagher Filters)	W. Criswell, Esq., C.E.	5	1 0	373	..	48·46	236	177
D Londonderry (Creggan Res.)	Mr. W. Hutchinson	8	1 0	325	41·8	44·47	265	191
D Limavady (Roevista Manse)	Rev. W. Browne	5	1 0	70	*37·0*	31·88	210	171
Limavady (Drenagh)	M. M. McCausland, Esq.	5	1 6	80	37·0	32·15	223	174
Bellarena	Sir F. G. Heygate, Bt.	5	4 0	12	*38·4*	35·60	..	..
TYRONE. (Area, 1257 sq. mi.)								
1.—ERNE. 46 sq. mi.								
2.—BANN—Lough Neagh, West. 442 sq. mi.								
D Dungannon (Aloha)	Major R. Stevenson	5	1 0	275	*37·2*	38·63	224	169
D Castlecaulfield (Parkanaur)	Capt. Y. A. Burges	8	0 6	250	..	38·29	213	163
3.—FOYLE. 769 sq. mi.								
D Omagh (Edenfell)	Lt.-Col. J. B. Buchanan	8	1 0	280	40·1	40·61	241	175
Newtown Stewart (Barons Ct.)	Capt. E. W. Ross	5	1 0	250	*43·0*	39·64	207	..
D Sion Mills (Sion House)	Capt. J. C. Herdman	5	1 0	100	*39·0*	40·46	219	176
DONEGAL. (Area, 1875 sq. mi.)								
1.—DONAGH & C. 146 sq. mi.								
D Malin Head *New Site*	The Meteorological Office	8	1 0	83	..	36·27	211	159
2.—LOUGH SWILLY. 273 sq. mi.								
D Rathmullen (Fort Royal)	Col. J. H. Jellett	5	1 0	35	*42·5*	42·82	239	184
D Buncrana Rectory	Rev. R. P. Meredith	5	1 0	50	..	41·46	238	183
3.—SHEEPHAVEN & C. 307 sq. mi.								
D Milford (The Manse)	Miss C. P. Young	5	1 3	150	42·0	40·63	229	189
D Dunfanaghy (St. Patrick's)	W. T. Arnold, Esq.	..	..	..	*43·0*	41·81	242	205
Mulroy Gardens	Earl of Leitrim	5	..	50	..	42·16	..	..
D Rosapenna Hotel	Rosapenna Hotel Co.	5	0 6	30	..	38·48?	215	173
4.—GWEEBARRA & C. 341 sq. mi.								
5.—DONEGAL BAY. 322 sq. mi.								
6.—ERNE. 68 sq. mi.								
7.—DROWES & C. 10 sq. mi.								
8.—FOYLE. 396 sq. mi.								
9.—INSULAR. 12 sq. mi.								

§ Gauge over-exposed on moor.

BRITISH RAINFALL

1932

PART IV

THE FREQUENCY DISTRIBUTION OF DAILY RAINFALL.

By E. G. Bilham, B.Sc. and A. C. Lloyd

When observations of rainfall have been made at a station for a long period we are placed in possession of a great mass of facts which must be summarised before they can be compared in any general way with similar facts relating to other places. The most natural thing to do, as the work goes on, is to add up the total in each calendar month and to sum the monthly totals at the end of each year. When the record has continued long enough we can work out the means of the monthly and annual totals and thus arrive at average values which tell us how much rain falls in the year and how that total is distributed through the year. We can also calculate averages of the number of days in each month on which some rain falls, and can then proceed to evaluate for each month and the year the average fall on a rain-day. To these data we can add, if we want statistics in that form, the average daily fall throughout the year and in each month.

When such averages have been computed, valuable information has been gained but we have not learned all we need to know about the rainfall of the place. To complete the analysis we require to know something about the fluctuations that occur from year to year, from month to month and from day to day. The fluctuations of annual and of monthly rainfall have been dealt with by Mr. Salter and Dr. Glasspoole in various papers but little has been published hitherto on the subject of fluctuations of daily rainfall, except in respect to the frequency of rain days and wet days. The most obvious way to treat the data from this point of view is to ascertain the average number of days giving falls of rain lying between specified limits. The data for Camden Square for the period 1858-1902 were dealt with in this way by Mr. H. Sowerby Wallis* and those for Kilmarnock (West of Scotland Agricultural College) for the period 1902-1930 by Mr. W. Dunbar†. Captain C. J. P. Cave has given a table for Petersfield (Ditcham Park)‡. Monthly frequency tables of daily rainfall for a few stations have been given in the Monthly Supplement to the

* On the Rainfall at Camden Square for the 45 years 1858 to 1902 by H. Sowerby Wallis, B.R. 1902, pages 16—35.

† 30 years' Rainfall at the West of Scotland Agricultural College, Kilmarnock, by W. Dunbar, B.R. 1931, pages 286—298.

‡ *Met. Mag.*, September 1929, page 185.

Daily Weather Report since 1917 and similar data for the whole year have been given in the Annual Summary of the Monthly Weather Report since 1914.

By utilising data preserved in manuscript form in the Meteorological Office it is now possible to give frequency tables on a uniform basis for twenty-four stations. The data do not all cover the same period, but that is probably not a serious objection for the present purpose. It will be seen, for example, that the results for Kew Observatory, Richmond, using data for the period 1871-1931 are closely similar to those for Camden Square, London, for the period 1858-1902. In certain cases the period covered by the analysis could have been extended by adding data for recent years, but the labour involved would have been considerable, and it is unlikely that the results would have been much affected.

For the majority of stations the available data were in the form of number of days with rainfall between the limits 0—1mm., 1·1—5 mm., 5·1—10 mm., 10·1—15 mm., 15·1—20 mm., 20·1—25 mm., 25·1—30 mm., 30·1—40 mm., 40·1—50 mm., and over 50 mm. The original readings were made in millimetres only at a few of the stations and at those stations only from the year 1915. In the case of inch measurements the successive limiting values are actually ·04, 0·2, 0·4, 0·6, 0·8, 1·0, 1·2, 1·6 and 2·0 inches. Some of these limits agree with those adopted by Mr. Dunbar but others do not, and it became necessary to devise a method by which the results for Kilmarnock and for Camden Square could be expressed in the same form as those for other stations. The method adopted was to express the tabulated frequencies for those stations in the form of " integrated percentage frequencies " and then to derive the values for the required limits by graphical interpolation. The process may be illustrated by taking the results for the whole year at Kilmarnock as given by Mr. Dunbar on page 289 of *British Rainfall* 1931. In the table below:

	in. ·01 –·03	in. ·04 –·09	in. ·10 –·19	in. ·20 –·29	in. ·30 –·39	in. ·40 –·49	in. ·50 –·59	in. ·60 –·79	in. ·80 –·99	in. 1·00 –1·49	in. >1·49
Daily Rainfall											
Frequency per cent. ..	12·0	13·2	12·4	7·5	4·8	2·9	2·0	1·9	·7	·4	0
Running Totals ..	57·8	45·8	32·6	20·2	12·7	7·9	5·0	3·0	1·1	·4	0

the first line gives the limits of daily rainfall adopted by Mr. Dunbar and the second line gives the percentage frequencies of falls within those limits. The next line of figures is obtained by adding up the percentage frequencies in succession, starting from the right; thus the value 7·9 is the sum of 2·9, 2·0, 1·9, ·7 and ·4 and evidently represents the percentage frequency of occurrence of falls of 0·40 inch *or more.* These are the figures referred to as " integrated percentage frequencies." A graph is now constructed in which the integrated percentage frequency is plotted as ordinate, using a logarithmic scale and the limit of rainfall is plotted as abscissa using a natural linear

scale. When plotted in this way the successive points lie very nearly on a straight line (see *Met. Mag.* Oct. 1932) and it is easy, therefore, to read off the integrated percentage frequency for any required value of the rainfall with great precision.

One could, by reading off the integrated frequency for two limits of rainfall, say r_1 and r_2, and taking the difference, deduce the percentage frequency of daily falls of between r_1 and r_2 and thus derive values for Kilmarnock and Camden Square which could be compared directly with the results for the other stations. It was thought preferable, however, to compute the integrated percentage frequencies for all the remaining stations and to print the results in that form. This is done in a straight-forward manner by simple successive summation of the original percentage frequencies, and we think there can be little doubt that the results are more directly useful. It is likely, for example, that a reader will be more interested in the frequency of occurrence of one inch of rain *or more* than in the frequency of occurrence of a rain of between 1·0 and 1·2 inch. If any reader requires information in the latter form he can obtain it from the table by taking differences of successive columns. Thus, at Camden Square in the autumn, we see from the fourth line of the table that a fall of 1·0 in. or more occurs on 0·51 per cent. of all days and that a fall of 1·2 in. or more occurs on 0·26 per cent. of all days. A fall of between 1·0 in. and 1·2 in., therefore, occurs on 0·51–0·26 or 0·25 per cent. of all days. To permit of such calculations being made with sufficient precision the percentages are given to the second place of decimals when necessary. Values are given for the whole year and for the groups of months "Winter" (January, February, December), "Spring" (March, April, May), "Summer" (June, July, August) and "Autumn" (September, October, November).

Graphs were drawn on semi-logarithmic paper to represent each set of frequencies and they were used to evaluate the amounts of rain to be expected on one day in 4, one day in 10, one day in 100 and one day in 400 in each season. These data are given in the right-hand portion of the table. The graphs are of some interest in themselves. For certain stations (e.g. Kilmarnock) they approximate very closely to straight lines at all seasons, but for the majority of stations the graphs are slightly curved (concave upwards), the curvature being most pronounced in the summer season. Even in the case of such a station as Kilmarnock the straight line relationship only applies to rainfall exceeding ·04 inch. If produced backwards the graph does not intersect the frequency axis at 100 per cent. as it should if very small falls followed the same law of distribution as falls of ·04 inch or more. This point will be clear if reference is made to Fig. 1 which shows the graphs representing the mean values for the whole year at six stations.

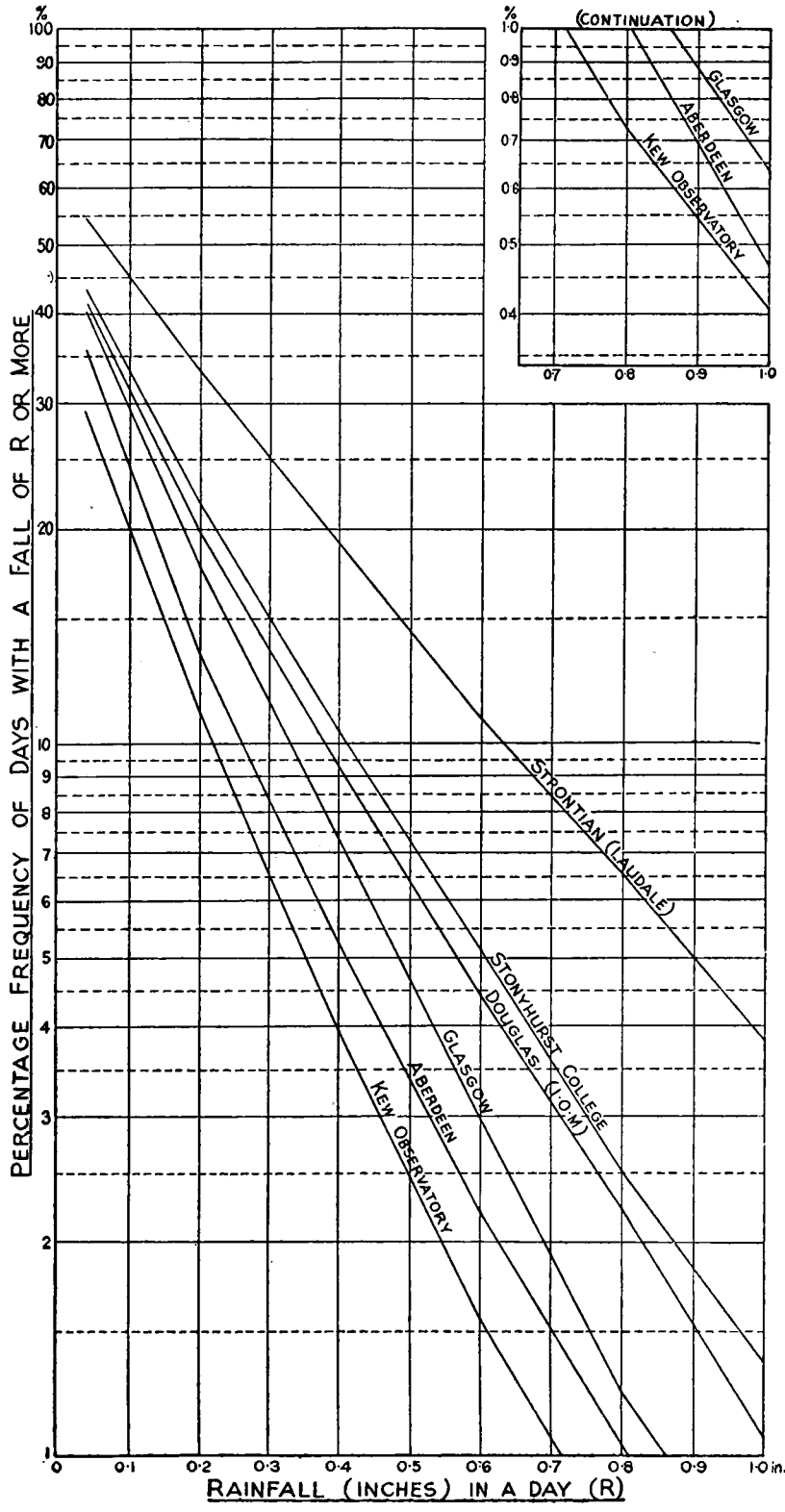


Fig. 1. Percentage Frequency Curves of Daily Rainfall (Whole Year) for six typical stations.

T

DISCUSSION OF THE RESULTS

The figures now presented enable the reader to form a fairly accurate idea of the probability of occurrence of a daily rainfall of given magnitude in different parts of the British Isles and at different seasons of the year. It is proposed to deal with a few of the more striking features but not to discuss the results at great length.

We may begin by pointing out that the figures in the first column of data in the table represent the percentage frequency of " wet days " as defined in *British Rainfall* Part II, Section 2. For the year as a whole the frequency of such days exceeds 50 per cent. at Strontian (Laudale) and is very nearly 50 per cent. at Markree Castle. In winter 50 per cent. is also exceeded at Kilmarnock, Deerness and Falmouth and is nearly reached at Stonyhurst. At all stations the lowest frequency of wet days occurs either in spring or summer.

At nearly all stations falls with a lower limit of ·2, ·4 or ·6 inch are markedly less frequent in spring than at other seasons. At certain stations, more particularly in the northern and western parts of the British Isles, the minimum frequency under each heading throughout the table occurs in spring but in the eastern half of Great Britain the frequency of heavy falls, e.g. 1·0 inch or more, tends to be lowest in winter.

The data relating to the frequency of heavy falls are perhaps the most interesting part of the table. At stations in south-eastern, north-eastern and eastern England, at Plymouth, Glasgow, Kilmarnock and the Irish stations the highest frequencies of rains with lower limits of one inch or more are found in the summer season. At Falmouth, Stonyhurst, Churchstoke, Douglas and the stations in northern Scotland, such rains occur most frequently in the autumn, the preponderence being particularly striking at stations like Deerness and Braemar. At Laudale, a wet station in Argyllshire, the heavy falls are slightly more frequent in winter than in autumn, and are least frequent in summer. Except in the eastern half of England and in southern Scotland where instability rains are the determining factor, the general tendency is for the highest frequency of heavy rains to occur in the season containing the wettest month. In Ireland where August is the wettest month over a large area we thus get the maximum frequency of heavy rains in the summer although thunderstorm rains are not a very important feature of the summer climate of that area.

In regard to the right-hand portion of the table, it is of interest to mention that the rainfall exceeded on one day in four is, at the drier stations, about equal to the mean daily fall throughout the year. At the wetter stations the ratio rises, the " one day in four " value being from 1·3 to 1·5 times the mean daily fall. At all stations the " one day in ten " rainfall is about three times the mean daily fall.

PERCENTAGE FREQUENCIES OF DAILY RAINFALL AMOUNTS.

County and River Division. Station. Period.	Season.	Percentage number of Days with falls not less than									Rainfall exceeded on one day in			
		1 mm. ·04 in.	5 mm. ·2 in.	10 mm. ·4 in.	15 mm. ·6 in.	20 mm. ·8 in.	25 mm. 1·0 in.	30 mm. 1·2 in.	40 mm. 1·6 in.	50 mm. 2·0 in.	4	10	100	400
		%	%	%	%	%	%	%	%	%	in.	in.	in.	in.
London 1	Winter ..	32·0	10·4	3·00	1·00	0·38	0·15	0·07	0·05	..	·07	·20	·59	·88
Camden Square,	Spring ..	27·0	9·1	3·05	0·99	0·36	0·22	0·13	0·04	0·02	·05	·18	·59	·93
1858–1902	Summer .	28·9	12·2	5·03	2·24	1·24	0·56	0·35	0·11	0·05	·06	·23	·84	1·29
	Autumn .	31·9	13·5	5·35	2·25	1·04	0·51	0·26	0·01	..	·07	·26	·80	1·18
	Year	29·9	11·3	4·11	1·62	0·75	0·36	0·20	0·05	0·02	·07	·22	·71	1·11
Surrey 5	Winter ..	31·2	10·4	2·98	0·89	0·25	0·18	0·09	0·02	..	·07	·20	·57	·79
Richmond (Kew Observatory),	Spring ..	27·9	9·1	2·57	0·78	0·30	0·17	0·10	0·02	..	·05	·18	·55	·85
1871–1931	Summer .	28·8	12·1	5·12	2·49	1·35	0·78	0·34	0·12	0·04	·06	·24	·90	1·38
	Autumn .	30·0	13·3	4·94	2·08	1·00	0·50	0·24	..	..	·07	·26	·79	1·17
	Year	29·4	11·2	3·91	1·56	0·73	0·41	0·19	0·04	0·01	·07	·22	·71	1·11
Hampshire 4	Winter ..	37·4	17·1	7·31	2·84	1·14	0·61	0·31	0·09	0·02	·12	·32	·83	1·25
Southampton,	Spring ..	29·7	11·2	4·10	1·76	0·71	0·26	0·07	..	..	·07	·22	·71	·99
1878–1931.	Summer .	29·8	13·2	5·39	2·66	1·39	0·66	0·42	0·17	0·11	·07	·26	·88	1·41
	Autumn .	33·2	17·3	8·55	4·02	2·04	0·94	0·58	0·22	0·07	·11	·35	·97	1·52
	Year	32·5	14·7	6·33	2·82	1·32	0·62	0·35	0·12	0·05	·09	·29	·86	1·30
Cambridge 2	Winter ..	30·2	8·7	2·54	0·75	0·31	0·03	0·03	..	..	·06	·18	·55	·81
Cambridge,	Spring ..	27·8	7·9	2·30	0·93	0·36	0·16	0·10	0·07	..	·05	·17	·56	·84
1900–1931.	Summer .	27·1	10·6	4·11	1·87	1·08	0·61	0·25	0·10	0·03	·05	·21	·82	1·18
	Autumn .	27·8	10·7	3·62	1·68	0·66	0·30	0·10	..	..	·06	·21	·70	1·02
	Year	28·2	9·5	3·14	1·31	0·60	0·28	0·12	0·04	0·01	·06	·19	·66	1·01
Norfolk 3	Winter ..	33·2	11·6	3·02	1·19	0·43	0·17	0·07	0·03	..	·08	·22	·63	·90
Hillington,	Spring ..	30·8	10·0	2·94	1·01	0·42	0·16	0·10	..	..	·07	·20	·59	·94
1877–1910.	Summer .	32·3	14·3	5·95	2·98	1·74	0·98	0·59	0·23	0·03	·09	·27	·98	1·54
	Autumn .	34·7	14·9	5·56	2·82	1·43	0·53	0·20	0·07	0·07	·10	·27	·86	1·14
	Year	32·8	12·7	4·38	2·00	1·01	0·46	0·24	0·08	0·02	·09	·24	·79	1·07

PERCENTAGE FREQUENCIES OF DAILY RAINFALL AMOUNTS—(*con.*)

County and River Division. Station. Period.	Season.	Percentage number of Days with falls not less than									Rainfall exceeded on one day in			
		1 mm. ·04 in.	5 mm. ·2 in.	10 mm. ·4 in.	15 mm. ·6 in.	20 mm. ·8 in.	25 mm. 1·0 in.	30 mm. 1·2 in.	40 mm. 1·6 in.	50 mm. 2·0 in.	4	10	100	400
		%	%	%	%	%	%	%	%	%	in.	in.	in.	in.
S. Devonshire 1	Winter ..	45·4	22·3	9·44	4·51	2·48	1·00	0·44	0·07	..	·17	·38	1·00	1·42
Plymouth,	Spring ..	31·2	13·3	5·13	2·19	1·03	0·30	0·07	..	..	·09	·26	·80	1·04
1893–1910.	Summer .	30·1	13·0	6·11	3·45	1·70	1·03	0·55	0·18	0·07	·07	·27	1·00	1·40
	Autumn .	37·3	17·3	8·33	3·69	1·67	0·93	0·38	0·07	..	·12	·35	·96	1·49
	Year	36·0	16·4	7·25	3·45	1·72	0·82	0·36	0·08	0·02	·11	·31	·93	1·34
Cornwall 2	Winter ..	52·0	27·9	13·2	6·52	3·20	1·86	0·76	0·23	0·06	·22	·47	1·12	1·54
Falmouth Observatory	Spring ..	37·0	16·1	6·72	2·64	0·93	0·51	0·14	0·02	..	·11	·30	·78	1·10
1871–1931.	Summer .	32·7	15·0	7·39	3·51	1·71	0·78	0·47	0·13	0·05	·09	·29	·68	1·37
	Autumn .	45·5	24·8	12·6	6·66	3·63	2·01	1·03	0·41	0·16	·19	·46	1·19	1·78
	Year	41·8	20·9	9·96	4·84	2·36	1·29	0·60	0·20	0·07	·16	·39	1·05	1·50
Central Lancashire 1	Winter ..	49·7	25·2	11·0	5·13	2·56	1·25	0·53	0·11	0·07	·20	·42	1·04	1·37
Stonyhurst College,	Spring ..	38·2	16·9	6·65	3·00	1·34	0·63	0·19	..	..	·12	·31	·86	1·14
1884–1931.	Summer .	41·9	21·0	11·4	5·84	2·83	1·62	0·98	0·27	0·07	·16	·43	1·17	1·60
	Autumn .	44·2	24·5	12·4	6·63	3·30	1·97	1·10	0·41	0·13	·19	·46	1·22	1·74
	Year	43·5	21·9	10·3	5·15	2·50	1·37	0·70	0·20	0·07	·17	·40	1·08	1·50
Yorkshire, N. Riding 4	Winter ..	33·6	10·6	3·07	1·12	0·32	0·09	..	..	..	·08	·20	·61	·83
Scarborough,	Spring ..	29·5	9·3	2·40	1·07	0·43	0·30	0·17	..	..	·06	·19	·61	1·05
1881–1906.	Summer .	29·5	11·7	5·16	2·28	1·20	0·86	0·43	0·17	0·09	·07	·24	·89	1·44
	Autumn .	36·5	14·3	5·20	2·11	1·21	0·48	0·26	0·13	0·04	·10	·27	·83	1·20
	Year	32·3	11·5	3·96	1·65	0·79	0·44	0·22	0·08	0·03	·08	·22	·73	1·14
Northumberland 5	Winter ..	36·2	12·5	4·90	1·73	0·62	0·38	0·17	0·03	..	·09	·24	·70	1·09
Morpeth (Cockle Park),	Spring ..	32·2	10·1	3·50	1·46	0·74	0·40	0·23	0·10	0·03	·07	·20	·70	1·15
1900–1931.	Summer .	31·8	13·2	5·80	2·77	1·59	0·93	0·60	0·23	0·10	·08	·26	·96	1·55
	Autumn .	35·2	12·8	5·43	2·54	1·22	0·57	0·34	0·13	0·10	·09	·26	·82	1·31
	Year	33·9	12·2	4·91	2·13	1·04	0·57	0·33	0·12	0·06	·09	·24	·80	1·29

PERCENTAGE FREQUENCIES OF DAILY RAINFALL AMOUNTS—(*con.*)

County and River Division. Station. Period.	Season.	Percentage number of Days with falls not less than									Rainfall exceeded on one day in			
		1 mm. ·04 in.	5 mm. ·2 in.	10 mm. ·4 in.	15 mm. ·6 in.	20 mm. ·8 in.	25 mm. 1·0 in.	30 mm. 1·2 in.	40 mm. 1·6 in.	50 mm. 2·0 in.	4	10	100	400
		%	%	%	%	%	%	%	%	%	in.	in.	in.	in.
Montgomery.....5	Winter ..	36·6	15·5	6·40	2·67	1·11	0·45	0·22	0·04	..	·11	·29	·81	1·06
Churchstoke,	Spring ..	32·2	11·3	3·52	1·62	0·65	0·30	0·26	0·13	0·09	·08	·22	·69	1·20
1876–1900.	Summer .	33·1	12·9	4·69	2·18	1·01	0·48	0·26	0·13	0·09	·09	·25	·79	1·20
	Autumn .	36·9	17·0	6·50	2·99	1·45	0·88	0·35	0·18	..	·12	·31	·94	1·38
	Year	34·7	14·2	5·27	2·36	1·05	0·53	0·27	0·12	0·04	·10	·27	·80	1·20
Isle of Man	Winter ..	49·0	23·4	10·03	4·45	1·84	0·80	0·37	0·07	0·02	·19	·40	·94	1·27
Douglas,	Spring ..	36·1	15·5	5·81	2·11	0·95	0·34	0·17	0·04	0·02	·11	·28	·78	1·07
1878–1931.	Summer .	35·3	16·8	9·04	4·65	2·49	1·12	0·63	0·17	0·02	·11	·36	·78	1·48
	Autumn .	44·2	23·5	11·90	6·40	3·57	1·98	1·00	0·34	0·19	·18	·45	1·18	1·78
	Year	41·2	19·8	9·18	4·40	2·21	1·06	0·54	0·16	0·06	·15	·37	1·00	1·36
Lanark 4	Winter ..	45·8	20·6	8·21	2·97	1·27	0·50	0·23	0·10	..	·16	·35	·84	1·16
Glasgow Observatory,	Spring ..	35·5	14·3	4·88	1·92	0·67	0·25	..	..	..	·10	·26	·71	1·00
1886–1920.	Summer .	37·8	17·5	7·56	3·39	1·64	0·99	0·54	0·16	0·10	·12	·33	·98	1·44
	Autumn .	40·8	19·4	8·45	3·53	1·32	0·82	0·40	0·07	0·03	·15	·35	·90	1·33
	Year	40·5	17·9	7·27	2·95	1·23	0·64	0·29	0·08	0·03	·13	·32	·85	1·23
Ayr 3	Winter ..	53·2	25·2	9·10	3·11	0·78	0·22	0·22	0·04	..	·20	·37	·75	·97
Kilmarnock,	Spring ..	40·4	15·1	4·80	1·09	0·22	0·15	0·11	0·04	..	·11	·27	·60	·77
1902–1930.	Summer .	42·1	18·5	7·83	3·27	1·85	0·76	0·44	0·11	0·07	·14	·34	·93	1·35
	Autumn .	47·0	22·4	9·90	4·61	1·54	0·66	0·33	0·04	0·04	·17	·39	·94	1·28
	Year	45·8	20·2	7·90	3·03	1·10	0·41	0·27	0·05	0·03	·16	·34	·81	1·20
Argyll 2	Winter ..	62·4	42·2	26·4	15·9	9·60	5·88	3·66	1·09	0·27	·42	·77	1·60	2·00
Strontian (Laudale),	Spring ..	47·8	26·4	13·4	7·28	3·99	2·34	1·14	0·41	0·14	·21	·49	1·23	1·76
1879–1909.	Summer .	50·5	26·6	13·3	7·46	3·94	2·12	1·23	0·38	0·10	·22	·49	1·25	1·70
	Autumn .	56·8	38·5	23·0	12·8	8·75	5·07	2·97	0·95	0·30	·36	·72	1·56	2·04
	Year	54·4	33·4	19·0	10·8	6·54	3·84	2·24	0·70	0·20	·30	·62	1·46	1·90

PERCENTAGE FREQUENCIES OF DAILY RAINFALL AMOUNTS—(*con.*)

County and River Division. Station. Period.	Season.	Percentage number of Days with falls not less than									Rainfall exceeded on one day in			
		1 mm. ·04 in.	5 mm. ·2 in.	10 mm. ·4 in.	15 mm. ·6 in.	20 mm. ·8 in.	25 mm. 1·0 in.	30 mm. 1·2 in.	40 mm. 1·6 in.	50 mm. 2·0 in.	4	10	100	400
		%	%	%	%	%	%	%	%	%	in.	in.	in.	in.
Angus 2	Winter ..	33·8	11·3	3·56	1·61	0·63	0·17	0·07	0·03	..	·08	·22	·69	·93
Dundee,	Spring ..	29·3	9·8	3·23	1·62	0·83	0·26	0·16	0·07	0·03	·06	·19	·73	1·00
1880–1912.	Summer .	34·7	14·2	6·07	2·98	1·57	0·85	0·52	0·10	..	·10	·28	·93	1·36
	Autumn .	33·7	12·7	5·40	2·63	1·19	0·56	0·40	0·17	0·10	·09	·25	·83	1·40
	Year	32·9	12·0	4·57	2·21	1·05	0·46	0·29	0·09	0·03	·08	·24	·80	1·26
Aberdeen 1	Winter ..	37·4	16·7	6·30	2·83	1·29	0·64	0·35	0·03	0·03	·12	·30	·86	1·46
Braemar,	Spring ..	35·6	14·2	5·49	2·31	0·98	0·48	0·13	0·03	..	·10	·27	·78	1·08
1880–1910.	Summer .	36·9	14·3	5·80	2·62	1·35	0·69	0·48	0·27	0·21	·10	·28	·88	1·70
	Autumn .	39·9	17·8	8·05	3·92	2·19	1·20	0·74	0·17	0·07	·13	·34	1·06	1·38
	Year	37·5	15·7	6·40	2·92	1·45	0·75	0·43	0·13	0·08	·11	·30	·90	1·36
Aberdeen 2	Winter ..	38·5	13·7	4·59	1·64	0·67	0·31	0·23	0·02	..	·11	·26	·70	1·12
Aberdeen (King's College),	Spring ..	33·2	11·0	3·99	1·67	0·61	0·20	0·04	..	..	·08	·22	·69	·95
1871–1930.	Summer .	32·7	13·6	5·52	2·69	1·48	0·61	0·37	0·10	..	·09	·26	·87	1·30
	Autumn .	38·6	15·3	6·57	2·83	1·36	0·75	0·41	0·17	0·06	·11	·30	·89	1·40
	Year	35·7	13·4	5·16	2·18	1·03	0·47	0·26	0·07	0·01	·10	·26	·80	1·19
Sutherland 2	Winter ..	42·3	17·4	5·56	2·01	0·88	0·38	0·13	0·03	..	·13	·30	·76	1·14
Dunrobin Castle,	Spring ..	36·4	13·6	4·15	1·45	0·47	0·23	0·10	0·03	..	·10	·25	·66	·97
1880–1910.	Summer .	35·6	14·1	5·19	2·31	1·01	0·45	0·27	0·03	0·03	·17	·26	·79	1·20
	Autumn .	40·2	16·1	6·77	2·58	1·12	0·69	0·34	0·14	..	·10	·31	·64	1·12
	Year	38·6	15·4	5·41	2·09	0·87	0·44	0·24	0·06	0·01	·11	·28	·76	1·17
Orkney	Winter ..	56·2	22·8	6·24	1·91	0·74	0·22	0·13	0·03	..	·18	·32	·72	·97
Deerness,	Spring ..	41·4	12·8	2·94	1·00	0·26	0·07	0·03	0·03	..	·11	·23	·59	·80
1886–1921.	Summer .	35·5	13·5	4·79	1·83	0·87	0·32	0·16	0·07	0·03	·09	·25	·75	1·06
	Autumn .	51·3	21·4	7·30	2·92	1·27	0·74	0·36	0·03	..	·17	·33	·87	1·24
	Year	45·9	17·5	5·31	1·91	0·78	0·33	0·17	0·04	0·01	·14	·29	·74	1·07

PERCENTAGE FREQUENCIES OF DAILY RAINFALL AMOUNTS—(*con.*)

County and River Division. Station. Period.	Season.	Percentage number of Days with falls not less than									Rainfall exceeded on one day in			
		1 mm. ·04 in.	5 mm. ·2 in.	10 mm. ·4 in.	15 mm. ·6 in.	20 mm. ·8 in.	25 mm. 1·0 in.	30 mm. 1·2 in.	40 mm. 1·6 in.	50 mm. 2·0 in.	4	10	100	400
		%	%	%	%	%	%	%	%	%	in.	in.	in.	in.
Offaly 1	Winter ..	45·9	16·8	5·20	1·44	0·43	0·14	0·04	..	..	·13	·28	·65	·88
Birr Castle,	Spring ..	37·2	12·0	3·60	1·28	0·49	0·18	0·11	0·02	..	·09	·23	·64	·92
1873–1931.	Summer .	40·8	16·8	6·71	2·94	1·45	0·76	0·45	0·20	..	·12	·31	·90	1·47
	Autumn .	39·9	16·5	6·22	2·64	1·11	0·46	0·25	0·08	0·02	·12	·30	·81	1·18
	Year	41·0	15·6	5·45	2·09	0·87	0·39	0·21	0·07	0·02	·12	·28	·76	1·13
Dublin 2	Winter ..	36·8	11·8	3·54	1·35	0·49	0·20	0·08	0·03	..	·09	·22	·65	·94
Dublin (Phœnix Park),	Spring ..	32·7	9·6	2·96	1·25	0·55	0·35	0·19	0·02	..	·07	·19	·65	1·09
1871–1931.	Summer .	36·4	14·1	4·88	2·45	1·34	0·77	0·41	0·17	0·09	·10	·26	·89	1·40
	Autumn .	35·8	13·1	5·29	2·53	1·19	0·65	0·37	0·15	0·08	·09	·26	·83	1·35
	Year	35·4	12·2	4·17	1·90	0·89	0·49	0·26	0·10	0·04	·09	·23	·76	1·20
Sligo 2	Winter ..	56·3	25·4	7·90	2·68	0·90	0·30	0·10	..	..	·20	·35	·77	1·02
Markree Castle,	Spring ..	44·7	17·1	4·64	1·47	0·42	0·19	0·12	..	..	·13	·28	·65	·92
1876–1931.	Summer .	47·1	21·0	8·25	3·33	1·53	0·66	0·40	0·16	0·04	·16	·35	·89	1·38
	Autumn .	51·4	24·2	9·08	3·94	1·55	0·65	0·33	0·13	0·04	·19	·37	·89	1·30
	Year	49·8	21·9	7·46	2·86	1·10	0·45	0·24	0·07	0·02	·17	·34	·81	1·17
Armagh 5	Winter ..	42·9	15·2	4·94	1·56	0·50	0·23	0·05	..	..	·12	·27	·67	·97
Armagh Observatory,	Spring ..	37·1	12·3	3·42	1·07	0·39	0·14	0·05	..	..	·09	·23	·60	·87
1871–1931.	Summer .	41·0	16·3	6·25	2·74	1·44	0·71	0·40	0·17	0·07	·12	·29	·89	1·40
	Autumn .	40·4	15·9	5·90	2·40	0·97	0·58	0·27	0·10	0·02	·12	·29	·77	1·21
	Year	40·4	15·0	5·12	1·94	0·83	0·42	0·30	0·07	0·02	·11	·27	·75	1·12

REPORT ON EXPERIMENTS WITH RAIN-GAUGE SHIELDS IN EXPOSED POSITIONS DURING THE PERIOD 1st MAY, 1932, TO 30th APRIL, 1933, AT HUTTON JOHN, PENRITH.

By F. HUDLESTON, M.Inst.C.E.

The experiments with shielded rain-gauges in exposed positions of which detailed descriptions have appeared in *British Rainfall* for the six years 1926 to 1931 have been continued for another 12 months in the manner described below.

Contoured maps and cross-sections of the hill have appeared in various former numbers of *British Rainfall.* A plan of the gauges in the western enclosure—which is the most exposed site—and cross sections of the hill showing most of the gauges were given in *British Rainfall,* 1930, and they are not repeated in this volume since the slight modifications to gauges E_1, E_2 and M would be hardly perceptible on so small a scale.

For the twelve months now dealt with the 11 gauges and sheltering devices described in *British Rainfall,* 1931, have been left unchanged and another gauge, called A_2, was added in October, 1932, for the express purpose of finding out how much the retaining wall of the garden, which is just east of the check gauge A, affected the catches of that gauge when an easterly wind brought rain with it.

The catches of all 12 gauges are set out in detail in Tables I and II of this article. The top line of each double line in these tables gives the actual catch in inches (*which were originally read to three places of decimals*) while the lower line in italics gives the catch as a percentage of A's catch. The ten unchanged experimental gauges on Kilnflatt Hill are grouped along a line towards Great Dodd, *i.e.,* 33° south of west (our greatest exposure, see the photo on p. 286, *British Rainfall,* 1926). The gauges in each group are in line from NNW. to SSE., so that they cannot interfere with their neighbours when we get the westerly winds we want for our purpose. Six gauges marked E_1, E_2, F, L, M and BA, are in the western enclosure and 30 yards west of the actual summit of Kilnflatt Hill (725·6 ft. above sea level) just where the 1 in 8 slope up from the west is merging into the rounded summit of the hill. The ground level at these six gauges varies from 718 ft. to 722 ft. above sea level.

Three more gauges, marked B, C, and D, are similarly arranged in a NNW. to SSE. line in the eastern enclosure and they lie 10 yards east of the summit where the ground level is one foot lower than the summit; thus their rims are just level with the top of the

hill. One gauge J, placed 40 yards east of B, C and D, is close to the western side of Kilnflatt Wood and the ground level at J is $10\frac{1}{2}$ ft. lower than the summit of the hill. It is normally exposed.

Gauge A, which lies 150 yards north of the line towards Great Dodd upon which the ten experimental gauges are placed and has always been used as the check gauge on which percentages are calculated, is a standard Snowdon 5 inch gauge. It is normally exposed and placed at the exact spot in the gardens where a 5 inch British Association gauge functioned from 1886 to 1926. It is 5 yards west of the 7 ft. retaining wall that divides the gardens from the lower lying ground of the park. As it was found that this wall upsets gauge A in all winds from the east and diminishes its catches whenever rain falls with such winds, we established in October, 1932, another normally exposed 5 inch gauge (called A_2) of the M.O. pattern exactly 7 yards due west of A, for the express purpose of finding out how great the disturbing influence might be. B is a 5 inch M.O. standard gauge and has had normal exposure since these experiments were started in November, 1926. C, also a 5 inch M.O. gauge, has had various sheltering devices round it, but since 28th November, 1930, it has been surrounded by a turf wall whose crater edge is circular, of 10 ft. diameter, truly horizontal and in a plane exactly 2 inches above the gauge top. Its outer slope is 1 in 4, while its inner face is nearly vertical. D, also a 5 inch M.O. gauge, has had the same turf wall round it since May, 1927. This wall is 15 inches high, *i.e.*, 3 inches above the rim of the gauge, the outer slope is 1 in 3, but the edge of the crater is parallel to the ground surface so that the western edge is $4\frac{1}{2}$ inches above the level of the gauge top, while the eastern edge is only $1\frac{1}{2}$ inches above the rim. As Kilnflatt Wood is only some 45 yards further east, D is completely sheltered from a strong east wind and consequently this difference of level in the crater edge does not affect the catches of D like the difference in level of the sloping crater edge of gauge E_2, where the lower edge of the crater is on the western side of the gauge, and, therefore, faces every gale from the west.

E_1, a 5 inch M.O. gauge, is the northernmost of the six gauges in the western enclosure. It has had various contrivances round it since November, 1926, but in October, 1931, its turf wall of 10 ft. diameter was restored to what it was in 1929–30, and its crater edge is now horizontal and in exactly the same plane as the top of the gauge. E_2, a 5 inch M.O. gauge, was established in May, 1928, and had from that time to October, 1931, a turf wall of 10 ft. diameter, whose crater edge was parallel to the ground surface and in the plane of the gauge top. The ground here slopes to the west 9 inches in the 10 ft. so that the western edge of the crater was $4\frac{1}{2}$ inches below the level of the gauge top and the eastern edge $4\frac{1}{2}$ inches above the top. But in October, 1931, as the catches of E_2 were always smaller than

those of E_1, the turf wall was raised 2½ inches all round so that for the last two winters its western crater edge has been only 2 inches below the level of the gauge top while the eastern edge is 7 inches above that level. This modification, however, does not seem to have any appreciable effect on E_2's catches (*see* p. 279 *British Rainfall*, 1931). The outer slopes of the turf walls round E_1 and E_2 are at 1 in 3, *i.e.*, the same slope as D's wall.

F, also a 5 inch M.O. gauge, is a normally exposed gauge placed 14 feet west of E_1 and E_2 so as to obviate risk of shelter from the masses of their turf walls when a westerly wind is blowing. It has been the same since May, 1927.

L, also a 5 inch M.O. gauge, is in a pit made in October, 1930, the bottom of which is 4 ft. in diameter and the top edge averages 8 ft. in diameter; the slope of the sides of this pit are 1 in 3, while the top of the gauge is exactly in the plane of the hillside which here slopes about 1 in 10 towards the west. The western edge of the pit is, therefore, about 6 inches below the level of the gauge top and the eastern edge about 6 inches above it.

M, another 5 inch M.O. gauge has, since October, 1931, been in a pit similar to, but larger than, that of L. Its outer diameter is about 11 ft. and its western edge is 7 inches below the level of the top of the gauge while the eastern edge is 6 inches above. The top of M, like that of L, lies exactly in the plane of the hillside.

BA is my old British Association gauge and was put in position here in December, 1931, for the express purpose of comparing its catching capacity with that of the Snowdon pattern (*see* pp. 280–1 *British Rainfall*, 1931). The catches for the two half years May to October and November to April, which are here given, corroborate the records of former years in showing that summer weather does not very seriously affect the catch of a gauge, even though it may be badly over-exposed or protected by the most effective shelters we have yet devised.

Period.	No. of rain-days.	Check gauge	Western Enclosure.						Eastern Enclosure.			Close to the Wood
		A	E_1	E_2	F	L	M	BA	B	C	D	J
		in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.
May-Oct., 1932	108	24·96	24·80	27·70	23·90	24·76	24·63	23·83	25·15	25·65	25·58	25·37
		100	*99*	*99*	*96*	*99*	*98*	*95*	*101*	*103*	*102*	*101*
Nov., 1932 to April, 1933	105	27·72	24·76	24·05	21·88	24·78	23·80	19·82	26·59	27·49	27·30	26·85
		100	*90*	*87*	*80*	*90*	*86*	*72*	*96*	*99*	*98*	*97*
Total for 12 months	213	52·68	49·56	48·75	45·78	49·54	48·43	43·65	51·74	53·14	52·88	52·22
		100	*94*	*92*	*87*	*94*	*92*	*83*	*96*	*101*	*100*	*99*

The percentages (*i.e.*, the italic figures) show, however, that their relative inefficiencies are enormously increased in the rough weather of winter.

The winter of 1932–33 has at last given me a really heavy snowstorm, as well as 30 days of rough weather. The records are set out in Tables I and II. Table I gives summaries of the kinds of weather, while Table II gives the details of those summaries.

The first double line (a) in Table I summarises the catches of 10 days of " strong to high " southerly winds. The relative percentages of the gauges are very much like those of the winter 1931–32, which were given on p. 283 of *British Rainfall*, 1931. Kilnflatt Hill is a " hogback," with its axis lying north and south and its southern slope is not quite so steep as the western slope of 1 in 8, so that, when a southerly wind blows, the gauges have rather different conditions from those that obtained in the 18 days of westerly winds which are summarised in lines (b) and (c). Both kinds of winds have the western enclosure on the windward slope while the eastern enclosure is just beyond the summit of the hill, but in southerly winds the gauges rather interfere with each other. The relative percentages, given in detail in Table II, show that it is only when the westerly winds get really high and approach 40 m.p.h. that the gauges of the western enclosure feel the full effect of the steeper western slope and fall back to their greatest extent behind those in the eastern enclosure, where gauges B, C and D catch much the same percentage of the check gauge, whether the wind is southerly or westerly.

But gauge J tells a very different story, for when the wind is southerly it gets no more shelter from the hilltop than gauge B gets. Their percentages are practically the same in line (a), but when the west winds blow, we find J taking the lead over all the lot on the hill, and this lead is increased rapidly as the wind gains force until on November 26th–27th (*see* Table II) J is actually 12 per cent. over C and D. This, by the way, is not J's record, for on two occasions when I have recorded a west wind of force 8, *viz.* November 27th, 1928, and December 29th, 1929, J got 15 per cent. more than D and D is generally 4 or 5 per cent. above B in high winds.

J was established in 1928, so that it has now functioned for five successive winters, during which it has always told the same story. I take it that we must all admit that the strong winds, do in fact carry many rain drops over the top of a hill and let them fall somewhere to leeward of the hilltop, but even when this is admitted we do not seem much nearer finding out whether the windward slope of the hill does or does not receive more than its fair share. The gauges here in the western enclosure on Kilnflatt Hill persistently catch far less than the average fall which, I take it, cannot be very different from what A catches year after year. In the really rough weather (lines (a), (b) and (c) of Table I) the best of the lot on the hillside, which at this time seems to be the " pit " gauge L is 17 per cent. below A for 28 rough days in the 6 months and it is 7 per cent. behind A for the

remaining ordinary 70 rain days in this period. If we take the whole winter's total (line (g) Table I) we find L is 90 per cent. only of A, while C and D, which are only 40 yards away from L, are practically the same as A. Although this total has included the two abnormal cases of (d) and (e) we find on inspection that they only added a quarter of an inch to the totals of L, C and D, so that they do not appreciably affect the issue.

I fear we must admit that we have not yet found out how to get a precise record of the rain that falls on an exposed hillside. We have undoubtedly proved that on Kilnflatt Hill a bare Snowdon gauge (*i.e.* a normally exposed gauge) is 10 per cent. better than a bare British Association gauge, while it is 10 per cent. worse than sheltered Snowdon gauges in pits or turf walled enclosures; and we can confidently tell any water-works engineer that the gauges of his gathering ground must be of the Snowdon type and must have turf walls round them if he wants them to be of real help in his calculations and records.

With regard to line (d) of Table I, we now have definite figures to show how much a vertical cliff only 7 ft. high can upset the catching capacity of a gauge 15 ft. to leeward of it, but in this particular instance at Hutton John it has had but little effect upon the gross totals because this little cliff faces a quarter from which we do not get much of our rainfall.

In line (e) of Table I, I have collected the snowfalls of last winter and although there were only two of them in this period, yet one of them was almost a record. The three days' snowstorm of February 24th–26th was an unusually heavy one. We had something like 2 ft. or 2½ ft. of snow all over this part of the Lake District, accompanied by a strong SE. wind, which produced heavy drifts in many places and especially in those of our stone walled roads that lay in a north and south direction for these were in most cases filled up level with the tops of their walls. In the Caldbeck district one gully of evil repute and about 30 to 40 ft. deep was filled up with drifted snow which smothered a considerable number of sheep that had taken refuge there according to their usual custom. The Penrith-Keswick Railway takes a wide sweep to the south between Blencow and Penruddock and it has two cuttings in this length. One of them, near Blencow, lies nearly north and south, while the other, near Penruddock, is nearly east and west. The Blencow cutting which is 15 to 16 ft. deep lay across the direction of the wind and it was completely filled up level with the surrounding country, while the Penruddock cutting, which is rather deeper than the Blencow one, lay in the direction of the wind and was comparatively free from drifted snow. This railway was blocked up from the night of February 24th to the

morning of Wednesday, March 1st, while the main road between Penrith and Keswick was not opened up until Thursday, March 2nd.

The ten experimental gauges at Hutton John had the Kilnflatt wood between them and the wind, so that the depth of snow over them was not affected by drifting. Every one of the twelve gauges I have to attend to was, however, buried in the night of Saturday, February 25th, and not one of them was again exposed to rain until noon of Monday, February 27th, when the snow was rapidly settling down. I could not actually measure any rain-gauge until 10h. on February 28th, when I succeeded in getting the catches of six gauges *viz.*, A, A_2, B, F, J and BA before the rain came on during that afternoon. These catches (*see* Table II) were, therefore, of snow, pure and simple. In order to arrive at the snow-catch of the remaining six gauges, I have deducted the quantity of rain which I measured in the first lot of six after February 28th from the gross quantity of precipitation which I found in each of the others at the time when I eventually found them thawed. This, by the way, did not occur in the case of gauge M until late in the afternoon of March 2nd and I only succeeded in measuring L's catch at 9h. on March 3rd, because the two *pit* gauges would not thaw their contents as quickly as those gauges that stood above ground level.

I purposely abstained from attempting to thaw any gauge by artificial methods lest I might confuse their records, and indeed it would have been hardly possible to do such a job in the arctic conditions prevailing at the time. I submit, however, that the catch I have given to each gauge in Table II is an accurate record of the quantity of snow-water which that gauge had caught. Now at the time when the gauges were buried none of them could well have caught much more than 12 inches of snow, even though the earth heat probably caused the copper gauges to thaw some of the snow that their funnels would be catching during the period before they were buried. This might have enabled some of them to pass down into their containers more than their true share of snow, in the same way as happened on March 20th, 1930, when I had thick snow on the ground and much drifting of it by a high wind (pp. 294–5 *British Rainfall*, 1929). But as there was little or no drifting over the ten experimental gauges last February I doubt if any of them actually collected more than one inch of precipitation before it was buried. Whence then did the rest of their catches come, unless it was water descending vertically from the superincumbent snow while it was thawing? If this be admitted it seems to follow that a gauge when completely buried under snow will give a fairly true record of the whole quantity of water in the snow that has covered it, and consequently it will have carried on its duty fairly well even when it might seem to have been put out of action.

The largest catch in this snowstorm is that of gauge A_2 in the gardens and here the snow was deeper than near A the check gauge, probably because the retaining wall of the garden played its usual trick of lifting rain or snow over A when a strong easterly wind is blowing. The catch of gauge J is comparatively small, presumably it was sheltered by the wood and at any rate the snow round J was not so deep as that in the two enclosures. The catches of B, C and D in the eastern enclosure are very nearly the same. Presumably there was no appreciable breeze there to help the two turf wall gauges to catch more snow than they were entitled to, as is their habit when snowflakes are driven over them by a breeze that is able to reach them. This peculiarity is noticeable in Table II, for the snowfall on February 18th, when the wind was NE. and slight. But at the western enclosure, where on February 24th–26th the SE. wind did have an appreciable effect, we find F and BA far below E_1, E_2, L and M. I submit that the modest ·90 inch of water which I found in BA was derived mostly from snow above the level of the top of the gauge, *i.e.*, from the snow that fell after BA was buried.

I would refer here to pp. 294–5 *British Rainfall*, 1929, where B and F, the two bare gauges that were then in the full blast of a high west wind, proved that bare gauges always fail to catch drifting flakes of snow. I would also refer to what we have discovered in the last eighteen months regarding the comparative failure of the old British Association gauge as compared with the Snowdon type, to catch precipitation of any kind whenever a breeze blows against it.

In line (d) of Table I, I have collected two cases where a fairly large quantity of rain fell with a SE. wind of only moderate force. These two days show clearly by the relative percentages of A and A_2 that the retaining wall of the gardens can have a considerable effect upon the catches of A. Since we do not here, under the lee of the Pennines, often have any considerable quantity of rain with easterly winds, this weak point in A's behaviour does not result in any fixed reduction of its yearly catch, for the resulting effect depends solely upon the relative quantities of precipitation from all quarters of the compass. In this particular winter, when much of our rain fell with westerly winds, we find that A's total for the six months is only one per cent. behind that of A_2.

The general results of last winter's catches do not differ much from those of winter 1931–32, which appeared at pp. 283–5 of *British Rainfall*, 1931, but the high westerly winds of last winter have accentuated L's superiority over E_1, in catching raindrops in really high winds. If we compare lines (a), (b) and (c) of Table I in this article we find L and E_1 to be equal in (a) and (b) while in (c) L has forged ahead of E_1 just as it did in the high winds of 1931–32. Now

this may be due to some hidden superiority of a " pit " over a " turf-wall," but it might well be attributable to " insplashing," because the windward edge of L's pit is only 4 ft. from the gauge, whereas in E_1's case the windward edge of its crater is 5 ft. away. L's lead of ·23 inch in line (c) has been reduced to one of only ·02 inch in the six months' total. It has therefore not had much effect in the long run, but it is very noticeable in all " the high wind " details of Table II, while it does not appear in the " fresh to strong " winds. In every other sort of weather we find L and E_1 to be equally good and it seems to be a mere " toss-up " as to which is the better type.

The " turf-wall " is a shelter which is applicable at any site, whether on level ground or on a hill-side. The " pit " is no good on level ground, for it is apt to get converted into a pond, unless one can drain it effectively as in fact I have had to do with the pit of gauge L on the sloping side of Kilnflatt Hill. Consequently I still " put my money " on the turf-wall, with sloping outer face, as being the best type of shelter for a rain-gauge in all exposed situations. The experience of the last three years has convinced me that its crater edge must be horizontal, and must be in the same plane as the top of the gauge which it surrounds, and that a one in four slope is better than one in three. It is also advisable to put a $2\frac{1}{2}$ inch drainpipe through the wall at its lowest foundation. I find my walls have got so consolidated that they can, and do, retain a heavy fall of rain for some little time and consequently might give trouble by " insplashing." A consolidated turf-wall can certainly make the business of measuring the gauge's catch rather a messy job after a thunderstorm and I found it necessary two years ago to put a drain through the wall of gauge C.

TABLE I.—*Summary of Catches from 1st November, 1932, to 30th April, 1933 (182 days in all).*

NOTE.—The italic figures are the percentages of A's catches.

Description of Catches.	No. of Days.	In the Gardens.		Western Enclosure.						Eastern Enclosure.			Close to the Wood	Direction and Force of Wind.
		Check Gauge. A	New Gauge (21 ft. west of A) A_2	E_1	E_2	F	L	M	"B.A."	B	C	D	J	
		in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
(a) Rain with "strong to high" southerly winds	10	6·09 *100*	6·10 *100*	5·04 *83*	4·87 *80*	4·50 *74*	5·03 *83*	4·67 *77*	4·06 *67*	5·87 *96*	5·95 *98*	5·95 *98*	5·88 *96*	South to South-west winds of Forces between 4 and 7.
(b) Rain with "fresh to strong" westerly winds	6	3·27 *100*	3·21 *98*	2·73 *83*	2·61 *80*	2·53 *78*	2·72 *83*	2·62 *80*	2·21 *68*	3·19 *97*	3·28 *100*	3·22 *98*	3·31 *101*	Westerly winds of velocities not exceeding 25 m.p.h.
(c) Rain with high westerly winds	12½	5·37 *100*	5·34 *99*	4·26 *79*	4·23 *79*	3·86 *72*	4·49 *83*	4·39 *82*	3·29 *62*	5·10 *95*	5·16 *96*	5·21 *97*	5·57 *104*	Westerly winds of velocities up to 40 m.p.h.
(d) Rain with easterly winds ..	2	0·62 *100*	0·66 *107*	0·66 *107*	0·65 *105*	0·64 *103*	0·65 *105*	0·64 *103*	0·63 *102*	0·61 *98*	0·65 *105*	0·63 *102*	0·62 *100*	South-east winds of Forces 2 to 3.
(e) Snowfalls (quite 2 ft. in all) ..	4	1·97 *100*	2·23 *113*	2·18 *111*	2·03 *103*	1·44 *73*	2·21 *112*	2·04 *103*	0·93 *47*	1·79 *91*	1·92 *97*	1·81 *92*	1·30 *66*	Easterly winds of Forces 2 to 4 at most.
(f) All other rain-days	70½	10·40 *100*	10·48 *101*	9·89 *96*	9·66 *93*	8·91 *86*	9·68 *93*	9·44 *91*	8·70 *84*	10·03 *96*	10·53 *101*	10·48 *101*	10·17 *98*	Winds from all quarters but not exceeding 18 m.p.h. (Force 4.)
(g) Total precipitation for 6 months (182 days), 1st November, 1932, to 30th April, 1933	105	27·72 *100*	28·02 *101*	24·76 *90*	24·05 *87*	21·88 *80*	24·78 *90*	23·80 *86*	19·82 *72*	26·59 *96*	27·49 *99*	27·30 *98*	26·85 *97*	

TABLE II.—*Details of Lines (a) to (e) on Table I in winter* 1932–33.

NOTE.—The italic figures are percentages of A's catches.

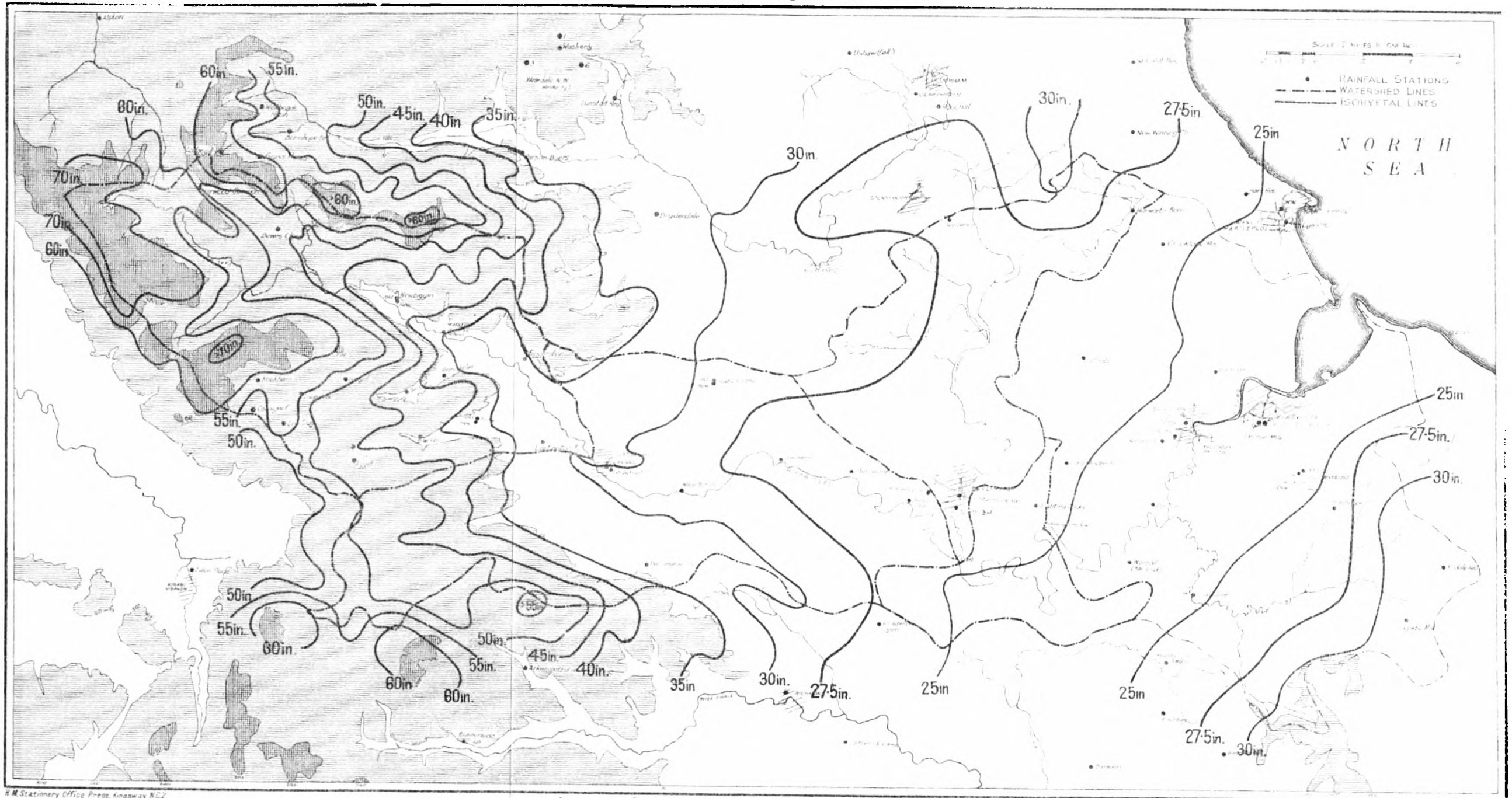
	Date.	No. of days.	In the Gardens.		Western Enclosure.						Eastern Enclosure.			Close to Wood	Direction and Force of the Wind.	
			Check Gauge A	New Gauge A_2	E_1	E_2	F	L	M	"B.A."	B	C	D	J		
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.		
(a) Southerly winds "strong to high."	1932. Dec. 14—18	5	2·66 *100*	2·63 *99*	2·11 *80*	2·04 *77*	1·81 *68*	2·15 *81*	1·95 *73*	1·77 *67*	2·61 *98*	2·63 *99*	2·66 *100*	2·65 *100*	S. to S.W.	5—7
	,, ,, 23	1	0·22 *100*	0·22 *99*	0·18 *83*	0·17 *76*	0·16 *74*	0·18 *81*	0·16 *73*	0·12 *55*	0·20 *92*	0·22 *99*	0·22 *99*	0·20 *92*	S.'W. to S.S.W.	4—6
	1933. Jan. 2—5	4	3·21 *100*	3·25 *101*	2·75 *86*	2·66 *83*	2·53 *79*	2·70 *84*	2·56 *80*	2·17 *68*	3·06 *95*	3·10 *96*	3·07 *95*	3·03 *94*	S.S.W.	5—7
	Total	10	6·09 *100*	6·10 *100*	5·04 *83*	4·87 *80*	4·50 *74*	5·03 *83*	4·67 *77*	4·06 *67*	5·87 *96*	5·95 *98*	5·95 *98*	5·88 *96*		
(b) "Fresh to strong" westerly winds not exceeding 25m.p.h.	1932. Nov. 1—3	3	0·49 *100*	0·49 *100*	0·43 *88*	0·43 *88*	0·36 *73*	0·43 *88*	0·41 *84*	0·35 *71*	0·46 *94*	0·49 *100*	0·50 *102*	0·49 *100*	Westerly winds.	4—5
	1933. Jan. 31	1	2·08 *100*	2·01 *97*	1·65 *80*	1·55 *75*	1·57 *75*	1·65 *80*	1·57 *75*	1·27 *61*	2·04 *98*	2·09 *101*	2·00 *96*	2·10 *101*	W.S.W. (heavy rain).	3—4
	,, Feb. 9 (up to 17h.)	1	0·24 *100*	0·25 *103*	0·21 *86*	0·20 *83*	0·20 *82*	0·21 *88*	0·21 *88*	0·18 *77*	0·23 *94*	0·23 *97*	0·25 *103*	0·25 *103*	W.'N.	5
	,, Apr. 8	1	0·46 *100*	0·46 *101*	0·44 *95*	0·43 *93*	0·40 *87*	0·43 *94*	0·43 *93*	0·41 *90*	0·46 *101*	0·47 *102*	0·47 *103*	0·47 *103*	W.S.W.	3—4
	Total	6	3·27 *100*	3·21 *98*	2·73 *83*	2·61 *80*	2·53 *78*	2·72 *83*	2·62 *80*	2·21 *68*	3·19 *97*	3·28 *100*	3·22 *98*	3·31 *101*		

TABLE II.—*Details of Lines (a) to (e) on Table I in winter* 1932–33.—*continued.*

	Date.	No. of days.	In the Gardens.		Western Enclosure.						Eastern Enclosure.			Close to Wood	Direction and Force of the Wind.
			Check Gauge A	New Gauge A_2	E_1	E_2	F	L	M	"B.A."	B	C	D	J	
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
(c) "High" Westerly winds up to 40 m.p.h.	1932. Nov. 22—23	2	1·33 *100*	1·33 *100*	1·15 *86*	1·14 *86*	1·10 *83*	1·20 *90*	1·18 *89*	1·04 *78*	1·32 *99*	1·33 *100*	1·33 *100*	1·41 *105*	S.W. to W. 6
	,, ,, 26—27	1½	0·33 *100*	0·33 *100*	0·24 *73*	0·24 *72*	0·21 *65*	0·27 *82*	0·27 *81*	0·22 *67*	0·28 *84*	0·30 *92*	0·30 *92*	0·34 *104*	W.'S. 7
	,, ,, 29	1	0·32 *100*	0·32 *100*	0·25 *80*	0·25 *80*	0·22 *70*	0·26 *81*	0·25 *80*	0·18 *57*	0·30 *95*	0·31 *97*	0·32 *99*	0·34 *105*	W.S.W. 5—6
	,, Dec. 2	1	0·28 *100*	0·28 *101*	0·21 *77*	0·20 *73*	0·18 *65*	0·21 *76*	0·21 *77*	0·17 *62*	0·26 *94*	(0·28) *101*	0·28 *101*	0·30 *108*	W.S.W. 5—7
	,, ,, 3	1	0·33 *100*	0·34 *102*	0·29 *88*	0·29 *88*	0·27 *82*	0·29 *88*	0·30 *90*	0·26 *80*	0·32 *96*	0·33 *98*	0·34 *101*	0·35 *106*	W.S.W 5—6
	1933. Jan. 7—8	2	0·32 *100*	0·31 *99*	0·24 *76*	0·24 *75*	0·19 *61*	0·25 *80*	0·24 *75*	0·16 *52*	0·29 *90*	0·30 *95*	0·30 *95*	0·32 *100*	S.W. to W.S.W. 4 & above (a rough night)
	,, Feb. 1	1	0·11 *100*	0·11 *100*	0·09 *80*	0·09 *80*	0·09 *78*	0·10 *88*	0·10 *88*	0·07 *63*	0·11 *98*	0·11 *98*	0·11 *99*	0·12 *107*	W.S.W. 6—7
	,, ,, 3—5	3	2·35 *100*	2·32 *98*	1·79 *76*	1·78 *76*	1·60 *68*	1·91 *82*	1·84 *78*	1·20 *51*	2·22 *94*	2·20 *94*	2·25 *96*	2·42 *104*	W.S.W. 5—8
	Total	12½	5·37 *100*	5·34 *99*	4·26 *79*	4·23 *79*	3·86 *72*	4·49 *84*	4·39 *82*	3·30 *62*	5·10 *95*	5·16 *96*	5·23 *97*	5·60 *104*	
(d) Easterly winds.	1933. Apr. 16	1	0·26 *100*	0·28 *107*	0·28 *107*	0·27 *105*	0·26 *99*	0·27 *104*	0·27 *104*	0·26 *100*	0·25 *96*	0·27 *104*	0·26 *102*	0·25 *96*	S.E. 2—3 (drizzle)
	,, ,, 24	1	0·36 *100*	0·38 *107*	0·38 *107*	0·38 *108*	0·38 *105*	0·38 *105*	0·37 *104*	0·37 *104*	0·36 *101*	0·38 *106*	0·37 *104*	0·37 *104*	S.E. 2
	Total	2	0·62 *100*	0·66 *107*	0·66 *107*	0·65 *105*	0·64 *103*	0·65 *105*	0·64 *103*	0·63 *101*	0·61 *98*	0·65 *105*	0·63 *101*	0·62 *100*	
(e) Snow-falls	1933. Feb. 19	1	0·06 *100*	0·06 *100*	0·07 *128*	0·07 *128*	0·03 *55*	0·06 *110*	0·06 *110*	0·03 *55*	0·03 *57*	0·08 *140*	0·07 *130*	0·06 *107*	N.E. 2 (about 1 in. of snow)
	,, ,, 24—26	3	1·91 *100*	2·17 *113*	2·11 *110*	1·96 *103*	1·41 *73*	2·15 *112*	1·98 *103*	0·90 *47*	1·76 *92*	1·84 *96*	1·74 *91*	1·24 *65*	S.E. 3—4 (about 2 ft. of snow)
	Total	4	1·97 *100*	2·23 *113*	2·18 *111*	2·03 *103*	1·44 *73*	2·21 *112*	2·04 *103*	0·93 *47*	1·79 *91*	1·92 *97*	1·81 *92*	1·30 *66*	

The actual catches in inches were originally made to three places of decimals.

TEES DRAINAGE AREA.



AVERAGE ANNUAL RAINFALL 1881-1915 (INCHES)

H.M. Stationery Office Press, Kingsway, W.C.2

Face page 285.

THE RAINFALL OF THE TEES VALLEY

By. JOHN GLASSPOOLE, M.Sc., Ph.D.

The Tees rises on the slopes of Cross Fell, one of the highest mountains in the Pennines, and flows eastwards. The height of the summit of Cross Fell is about 2,930 feet and within about five miles of the summit, the Tees, after being joined by two large streams, the Trout Beck and Crook Burn, falls to a level of about 1,700 feet. Each of these two streams drains a large area over 2,000 feet. The Maize Beck and Langdon Beck, also drain appreciable areas over 2,000 feet. These two streams join the Tees just above High Force, where the level of the river drops to about 1,000 feet. Among the other streams draining to the main river above Barnard Castle are the Lune and Balder (from which water is abstracted for the supply of Middlesbrough, by the Tees Valley Water Board), Deepdale Beck and to the north of the main river, Eggleston Burn, draining Middleton Common. At Barnard Castle the level of the river is about 450 feet. Below Barnard Castle the only streams of importance are the river Greta (which drains much of Stainmore Forest), the river Skerne (draining a large area to the north of Darlington to Croft) and the river Leven (draining part of the Cleveland Hills to Yarm). No stream entering the main river below Eggleston drains land at an altitude of as much as 2,000 feet, the highest land in the case of the river Skerne being only about 700 feet.

Rainfall records available. A good deal of information as to the rainfall in the Tees Valley has been published in the annual volumes of *British Rainfall.* The most important group of records are those maintained by the Tees Valley Water Board in the Lune and Balder catchment areas, the longest record, *viz.* that at Hury Reservoir, commencing in 1894. Numerous longer records are available, *e.g.* at Mickleton commencing in 1877, Barnard Castle 1888, Darlington 1874, Hurworth Burn Reservoir 1870, Ingleby Greenhow 1884 and Middlesbrough 1875. Other long records, available just outside the area, are maintained at Durham Observatory, Ushaw College, Waskerley Reservoir, Appleby and Kirkby Stephen. These records have enabled maps of the British Isles to be prepared defining the rainfall fluctuations experienced in the Tees Valley in each year back to 1868 (as given in the *Rainfall Atlas*, published by the Royal Meteorological Society, and for recent years in *British Rainfall*). In these maps the rainfall is expressed as a percentage of the average annual rainfall for the standard period 1881 to 1915. These long rainfall records are also used to adjust the mean annual amounts recorded at stations covering shorter periods, to give a computed average for the standard period 1881 to 1915.

When the Biological, Chemical and Hydrographical Survey of the River Tees commenced in 1929 the existing rainfall stations were inspected and additional records were started at Harwood Common, Bowes Close, Newbiggin, Middleton-in-Teesdale, Eggleston, Lartington Filters, Whorlton Vicarage, Raby Castle, Charlbury Hall, Gainford House, Fighting Cocks Reservoir and Stillington Park. Records were commenced the previous year at Broken Scar Reservoir and Long Newton Reservoir by the Engineer to the Tees Valley Water Board. All these records have been used in the preparation of a map of the average annual rainfall over the Tees Valley, reproduced facing p. 289, which also shows the positions of the stations in operation during the period of the Survey.

Map of Average Annual Rainfall. In the preparation of this map the 35 years, 1881 to 1915, adopted for the Book of Normals*, were utilised. The mean annual rainfall recorded at any station with a short record was weighted, by reference to the nearest long period stations with continuous records since 1881, to give an estimated value of the mean annual amount for the standard period 1881 to 1915. The method is explained in an article on the Rainfall of Norfolk†. There is ample information to draw the isohyetal lines over the whole area apart from the extreme south-west, on Bowes Moor and Scargill High Moor, and in the north-west, from Mickle Fell to Cross Fell. In drawing the isohyetal lines over these regions, full weight has been given to the general principles which have been enunciated as to the relation of rainfall to the configuration of the land and which are referred to in the article on the Rainfall of Norfolk, mentioned above. By this means the isohyetal lines have been extended from the areas of abundant records to cover adjacent areas with little or no data.

The average annual rainfall, for the standard period, 1881 to 1915, is about 23 inches in the neighbourhood of the Tees Estuary, and between 23 inches and 25 inches over a broad strip near the main river almost as far up as Croft. A considerable portion of the upper catchment area of the river Leven, draining to Yarm, receives more than 30 inches. The rainfall over the river Skerne catchment area varied from about 25½ inches at Croft to 30 inches near Trimdon. At first the increase in the rainfall up the Tees is small, the average rainfall reaching 27½ inches just above Winston, 30 inches at Barnard Castle and 35 inches at Middleton-in-Teesdale, but subsequently the increase is more rapid, the average reaching 55 inches at Caldron Snout, the junction with Maize Beck, and probably as much as 78 inches on Cross Fell. A rainfall of 35 inches or more is confined

**The Book of Normals*, M.O. 236, Section V, Meteorological Office publication, gives the average monthly and annual rainfall for 578 stations in the British Isles.

† *British Rainfall*, 1928, pp. 270-285.

almost entirely to that part of the catchment area exceeding 1,000 feet above sea level, while as much as 60 inches occurs where the altitude exceeds 2,000 feet or in the immediate vicinity of such regions. More than 70 inches probably falls only on the summit of Mickle Fell and the area between Dufton Fell and Cross Fell. In the north-west of the catchment area, along the ridge stretching between Harwood Common and Middleton Common, the rainfall probably just exceeds 60 inches, with as much as 65 inches on Burnhope Seat. In the south-west near Bowes Moor and Scargill High Moor, no appreciable area receives as much as 60 inches.

Utilising the map of the average annual rainfall, estimates have been made of the general rainfall over certain catchment areas. The general average rainfall over the area draining to Barnard Castle (177 square miles) is about 51 inches, to Croft above the Skerne (349 square miles) about 43 inches, to Croft below the Skerne (447 square miles) about 39 inches, and to Middleton-one-Row (486 square miles) about 38 inches.

Printed under the Authority of His Majesty's Stationery Office,
By C. TINLING & Co., LTD., Liverpool, London and Prescot.

Wt 25651/6021 8.33 700 CT&CoLtd Gp330.

A SHORT COURSE IN ELEMENTARY METEOROLOGY.
Fourth Edition (revised). M.O. 247. In the press.

THE WEATHER MAP.
An introduction to modern Meteorology. M.O. 225i. Second Edition. 3*s*. (3*s*. 2*d*.)

METEOROLOGICAL GLOSSARY (in continuation of the Weather Map). M.O. 225ii. Second Edition. 4*s* 6*d*. (4*s*. 11*d*.)

METEOROLOGY IN RELATION TO AIR PILOTAGE.
M.O. 327. 6*d*. (7*d*.)

THE STRUCTURE OF WIND OVER LEVEL COUNTRY. Report on experiments carried out at the Royal Airship Works, Cardington. Geophysical Memoir No. 54. M.O. 331d. 10*s*. (10*s*. 5*d*.)

THE AIR-EARTH CURRENT AT KEW OBSERVATORY.
Some results obtained with a new automatic recorder. Geophysical Memoir No. 58. M.O. 356a. 2*s* 6*d*. (2*s*. 8*d*.)

BAROMETER MANUAL FOR THE USE OF SEAMEN.
A text-book of Marine Meteorology, with an Introduction and Appendices. M.O. 61. Eleventh Edition. (1932). 2*s*. 6*d*. (2*s* 9*d*.)

METEOROLOGICAL OBSERVER'S HANDBOOK.
Approved for the use of Meteorological Observers by the Meteorological Office and the Royal Meteorological Society. M.O. 191. 1926 edition. 5*s*. (5*s*. 4*d*.)
Revised text of § 14 "The Raingauge" from p. 79 to bottom of p. 81. 2*d*. (2½*d*.)
SUPPLEMENT No. 1. Instructions for Meteorological Telegraphy. M.O. 191/1. 2nd Edition, 1930. 2*s*. 6*d*. (2*s*. 8*d*.) Amendment. 1*d*. (1½*d*.)
SUPPLEMENT No. 2. Instructions to Observers at Auxiliary Climatological Stations. M.O. 191/2. 2nd edition, 1933. 3*d*. (3½*d*.)
SUPPLEMENT No. 3. Instructions to Observers at Normal Climatological Stations. M.O. 191/3. 2nd edition, 1931. 2*d*. (2½*d*.)
SUPPLEMENT No. 4. Instructions to Observers at Climatological Stations at Health Resorts. M.O. 191/4. 2nd edition, 1931. 3*d*. (3½*d*.)

MARINE OBSERVER'S HANDBOOK.
A text-book for the use of Meteorological Observers at sea. M.O. 218. Fifth Edition. 2*s*. 6*d*. (2*s*. 10*d*.)

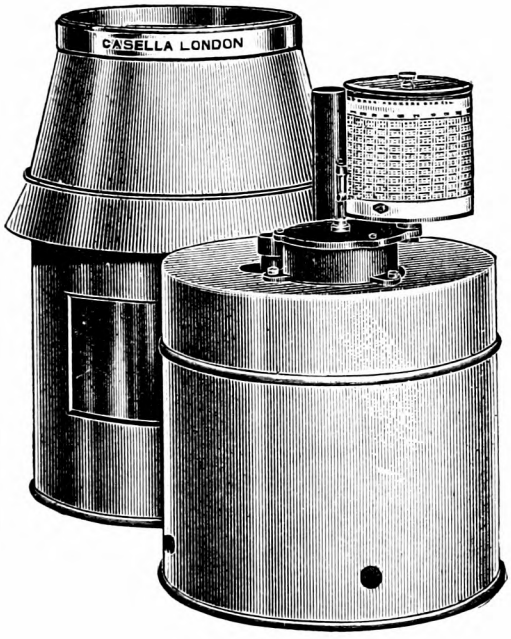
All prices are net. Those in brackets post free.

HIS MAJESTY'S STATIONERY OFFICE

LONDON: ADASTRAL HOUSE, KINGSWAY, W.C.2.
EDINBURGH: 120, GEORGE ST., 2 MANCHESTER: YORK ST., 1
CARDIFF: 1, St. Andrew's Crescent. BELFAST: Donegall Square West;
or through any bookseller.

CASELLA'S SIPHON RAINFALL RECORDER

As supplied to Meteorological Departments and Public Bodies throughout the world



Extract from a letter received from a Meteorological Department abroad:—

"Dear Sirs,
"Your Siphon Rain Gauges
"are considered one of the
"most satisfactory types of
"self-recording rain gauges we
"have tested ....."

£17 : 10 : 0

Full particulars on application

C. F. CASELLA & CO. LTD.

Regent House, Fitzroy Square,
LONDON, W. 1